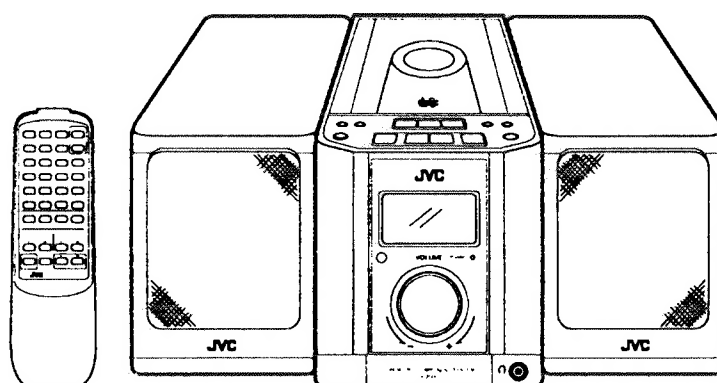


JVC

SERVICE MANUAL

ULTRA MICRO COMPONENT SYSTEM

UX-2000GD UF



COMPACT
disc
DIGITAL AUDIO


Area Suffix

UFChina

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1.Safety Precautions

1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacture's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety - related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of service manual. Electrical components having such features are identified by () on the schematic diagram and parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.

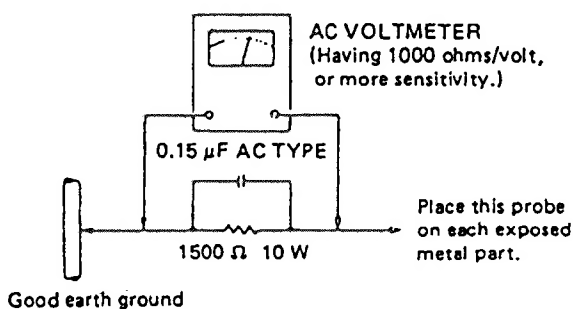
5. Leakage current check (Electrical shock hazard testing)

After re - assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. using a "Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC(r.m.s.)

• Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a 0.15 μ F AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured



CAUTION

Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.

2.Safety Precaution about UX-T2000GD

■ Important management points regarding safety(Items demanding special safety precautions)

1. Power transformer marking : VTP66J2 – 12K

The torque of the screw driver for the power transformer must be controlled.

2. Concerning the AC socket, the next marking must be confirmed and to avoid print circuit board pattern damage.

The AC socket must not float from print circuit board.

•Marking HJC027

3. Concerning the primary terminal and the adjacent secondary terminal on the print circuit board to provide proper creeping and spatial distance, solder must not protrude from soldering round.

4. Before installation confirm the fuse capacity indication, $\text{\textcircled{S}}$ or $\text{\textcircled{S}}$ mark on the holder.

REF.NO	Capacity and mark	Indication on P.C.board
F901	T400mA/250V	T400mA/250V
F902	T6.3A/250V	T6.3A/250V

5. Wires must be clamped or secured at the locations shown in the figure so that the wire do not touch to live parts, moving part , hot part, or sharp edges.

6. Following parts are controlled as the heated parts. confirm that the flammable parts are lifted up the parts in () must be controled.

• IC901, IC31, (Q9201),R1001, R1002,R2001,R2002,(R5904),(R4003),IC602, Heat sink+IC91, IC holder(For IC901, IC31), (Heat sink)

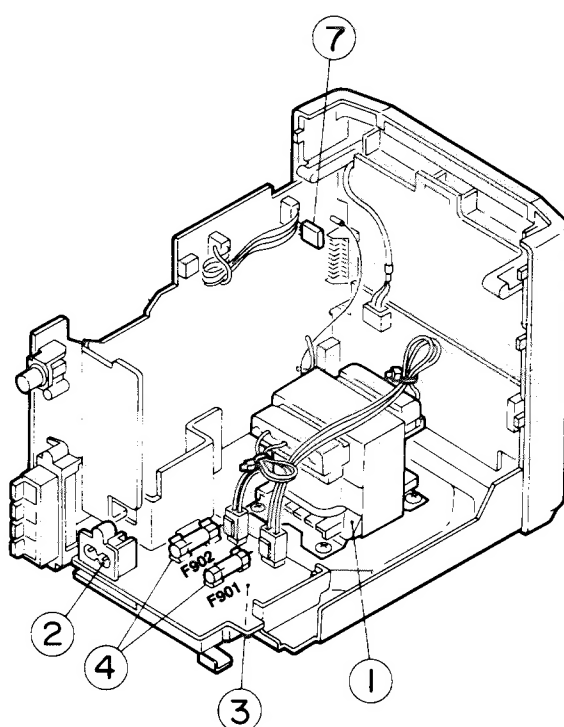


Fig. 2-1

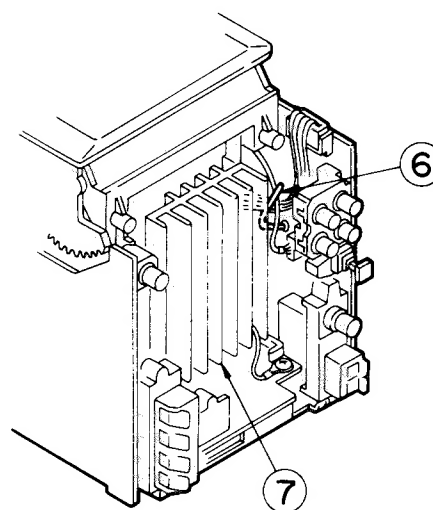


Fig. 2-2

-MEMO-

3.Instructions

規格

- CD 播放部分**
- 類型 : 小型雷射唱機
 - 信號輸出 : 無輸出端子
 - 聲道 : 雙聲道
 - 頻率範圍 : 20 Hz~20,000 Hz
 - 信噪比 : 90 dB
 - 變調度 : 小於可測限度
- 無線電收音機部分**
- 頻率範圍 : FM: 87.5~108 MHz
AM: 531~1,602 kHz (頻道間隔設定於 AM9 kHz)
 - AM: 530~1,710 kHz (頻道間隔設定於 AM10 kHz)
 - 用於 AM 的選台天線 : 用於 FM (75Ω) 的外接天線端子
- 揚聲器部分 (均相同)**
- 揚聲器 : 8 cm×1
 - 阻抗 : 4 Ω
 - 體積 : 120 (寬) × 158 (高) × 186 (深) mm
 - 重量 : 約 1.3 kg (UX-2000)
約 1.4 kg (UX-1000)

- 總合**
- 輸出功率 : 18 W (9 W × 9 W) 於 4 Ω (輸入諧波失真 2%)
 - 輸入端子 : 輔助輸入 LINE IN (AUX) (300 mV/47 kΩ)
 - 輸出端子 : 耳機 (PHONES) × 1 (輸出電壓 0~15 mV/頻道, 32 Ω, 匹配阻抗: 16 Ω~1 kΩ)
 - 揚聲器 (SPEAKER) : 匹配阻抗 4 Ω ~16 Ω
 - 線路輸出 : 300mV/47kΩ
 - 最低音輸出 : 光學數字輸出
 - 電源要求 : AC 220V, 50Hz
 - 功耗 : 30 W (於 POWER SW ON 時)
3 W (於 POWER SW STAND-BY 時)
 - 體積 : 380 (寬) × 161 (高) × 258 (深) mm (包括腳)
 - 重量 : 約 5.5 kg (UX-2000)
約 5.7 kg (UX-1000)
 - 附件 : 交流電源線 × 1
遙控器 (RM-RXU1000) × 1
電池 "RG6AA (15F)" × 2 (用於遙控器)
 - FM 調變天線 × 1
 - 環形天線座 × 1
 - 揚聲器轉接 × 2

設計以及規格若有變更，恕不另行通知。



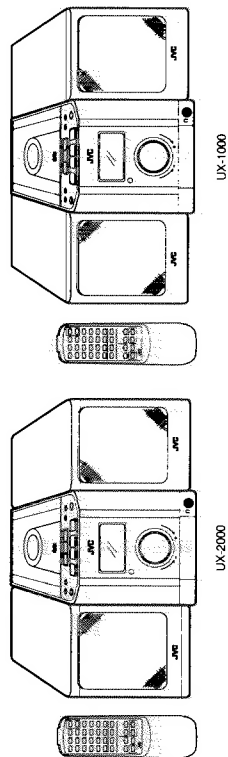
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UX-2000/UX-1000UF

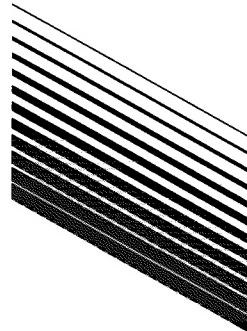
微型組合音響

UX-2000^{UF}
UX-1000^{UF}

微型組合音響

COMPACT
disc
DIGITAL AUDIO

使用說明書

JVC
VICTOR COMPANY OF JAPAN, LIMITED

特點介紹

- 雙型組合台架設備
- 採用工業低壓音響系統超低音 (Active Hyper-Bass PRO) 產生低頻音響
- 電腦操作 (COMPUTER PLAN)
- 36個遙控器
- 多功能 (1) 可換
- 最多20個的編程播放
- 重複播放
- 迴路播放
- 具有預設40個電台 (15個FM和5個AM) 能力的立體聲數字合成調諧器
- 搜尋/自動調諧
- 自動預設調諧
- 定時器及睡眠功能
- 帶遙控音響功能的40器開關
- 睡眠定時器可以設定入睡到30分鐘
- 調光鍵
- 光學輸出
- 調低音輸出

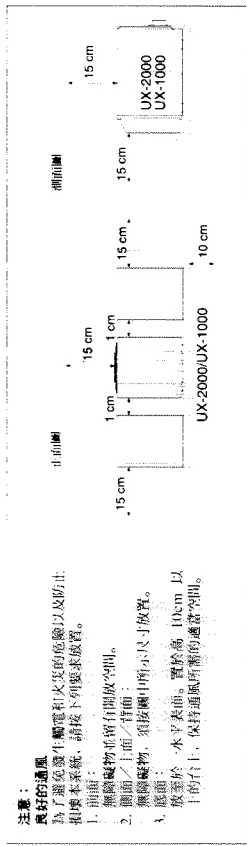
安全須知

- 為了預防電擊、火災以及設備損壞，請將電線（POWER）與設備接合時（STANDING），仍然會有很多步驟需要遵守。因此，為了看圖說明安全記號，請參閱下列使用說明書，並將電線與設備上安全電線圖形接合下來。
- 使用下列指示來檢查電線線路。
- 如果您需要將電線與設備連接，請將電線與設備上安全電線圖形接合下來。
1. 檢查電線線路。檢查電線線路，以確保電線線路沒有損壞。檢查電線線路，以確保電線線路沒有損壞。
2. 檢查電線線路。檢查電線線路，以確保電線線路沒有損壞。檢查電線線路，以確保電線線路沒有損壞。
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10. 檢查電線線路。檢查電線線路，以確保電線線路沒有損壞。檢查電線線路，以確保電線線路沒有損壞。

電源 (POWER) 鍵

當電源線連接到室內交流插座時，電源指示燈亮紅燈表示本機處於電源待機（STANDBY）狀態。當按壓電源（POWER）鍵時，電源指示燈熄滅，顯示窗點亮。

③將裝置的電源插頭插入市電交流電源插座，即使電源鍵(PWR)設於待機狀態(STANDBY)，仍然會有少量的電流流入，以作為遙控器操作以及定時器、微電腦晶片等裝置的起電之用。



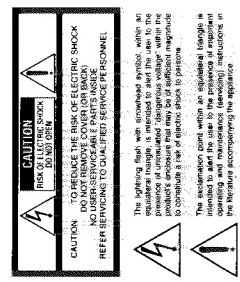
使用須知

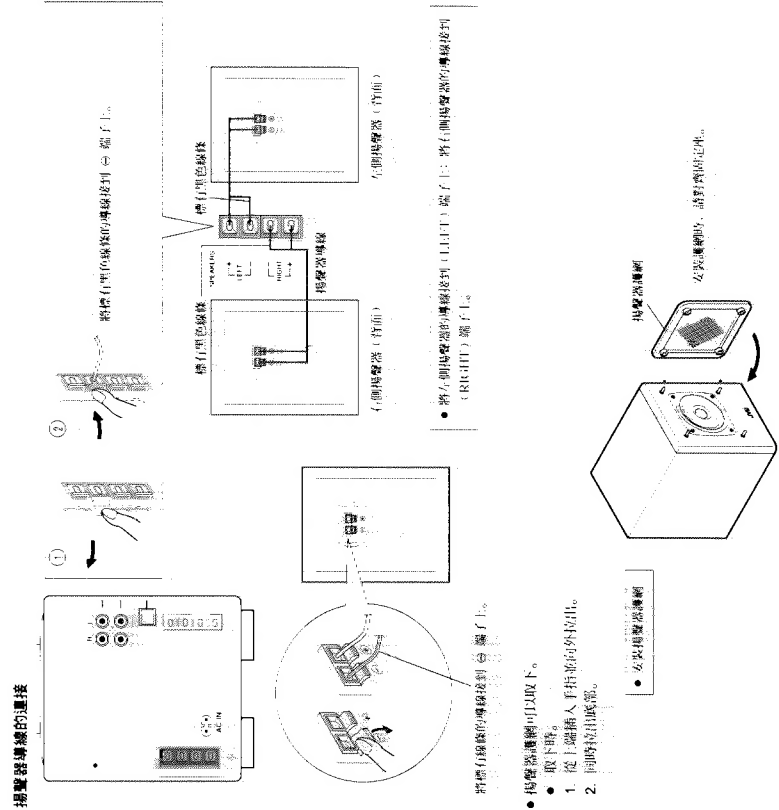
- 切勿有直接陽光射入使用本機，或放在溫度高達 40 °C 以上的場所使用。
1. 避免設置於下列場所
 - 有振動的處。
 - 有潮氣之處，諸如浴室之類。
 - 接有暖爐、烘乾器等有暖熱之處。
 2. 注意及圖示
- 依圖示將 CD 托架或 CD 托盤，不置於吸塵器的吸口。
3. 結算
- 於下列情況，機內有可能結露。這時裝置有可能不能正常運作。
- 剛打開吸塵器的房間。
 - 有煙霧，或者過於潮濕的場所。
 - 從寒冷的房間直接移至溫暖的房間。
- 於上述情況，接通電源以後，先等 1 至 2 小時，然後再使用。

- 音量的調節** 根據唱碟音調高低，C/D 唱碟的唱音極小，如果根據這些高低來調整音量調節的旋鈕，那麼唱碟可能會因突然增大的音量而損壞。因此在操作之前，應將低音音量，在收音機開關離線後，需要進行調節。
- 安全機構** 本機裝有一種安全鎖機構，可關閉雷射光束，使在 C/D 托架裝入碟片時，雷射光束暫時停止動作。
- 或 C/D 托架打開時雷射光束立即停止。
- 由於卡式磁帶等物件位於雷射光束附近，因此將雷射光束關閉，可防止雷射光束對物件造成損傷。
- 雷射光束位於唱碟內，因此，切勿將磁帶帶入，或者磁帶放置於唱碟之上，否則雷射光束的資料將被刪除。
- 裝置附近最近使用過之雷射光束，在電機機構附近使用時，雷射光束可能受到干擾，因此若有干擾，則請在查看電機時，不要使用本機。
- 機殼的清潔工作** 如果機殼上有污痕，請用柔軟的乾抹布擦拭。切勿使用揮發性液劑或磨擦劑，這些液劑會損壞表面的積垢。
- 當使用耳機聽音的時候，請用耳機插進插孔的插孔。
- 請勿用產品蓋蓋，這將會損壞產品功能。

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警告： 為了防止火災以及觸電，請勿讓本機淋雨受潮。





● 如果兩條線有黑色線條的揚聲器導線都接到 ⊕ 端上，所連接的兩個揚聲器的極性即相同。如果兩個揚聲器的極性接反了，立體聲效果及音調都會變差。

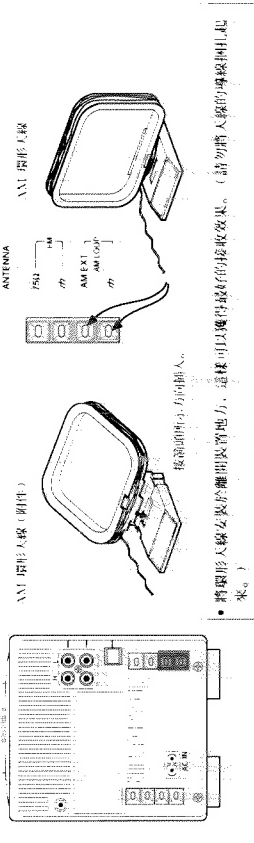
● 本機的两个揚聲器都沒有作絕保護，因此，如果直接放音於電視機上，或者接近電視機，都會使電視圖像失真。揚聲器應該放置於離開電視機至少 20 cm 之處（適用於 UX-1000 型）。

● 如果要將揚聲器與上機分離放置，請從音響店購買匹配的揚聲器導線。

● 當您連接揚聲器的導線時，請確認是導線已而不是絕緣層被連接在揚聲器的端子上，否則將聽不見聲音。

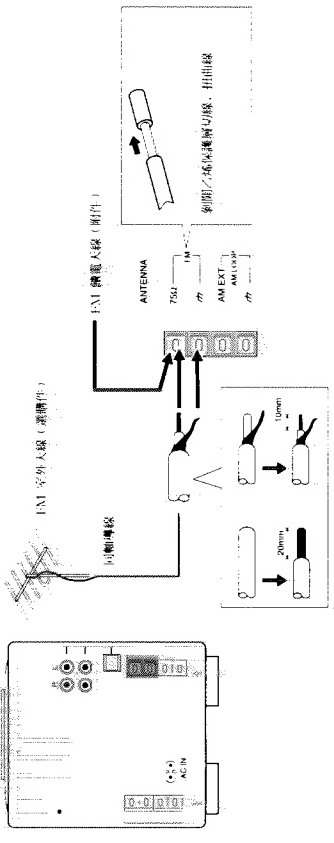
連接

- 在所有連接完成之前，請勿接通電源。
- 天線的連接與調節
- AM 環形天線的調節



● 將環形天線安裝於表殼背面裝置地方，這樣可以獲得最好的接收效果。（請勿將天線的導線圈扎起來。）

FM 天線的連接與調節



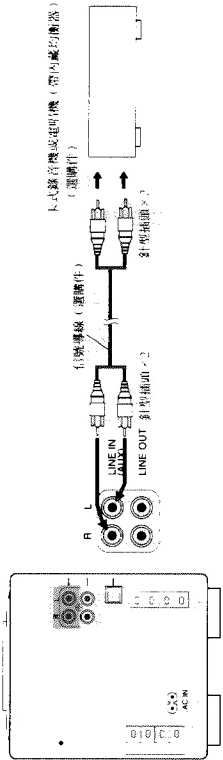
● 如果內置的天線不能獲得穩定的接收效果，請使用室外天線。

註：

- 切勿將環形天線放置於金屬桌上，或者使其直接近電氣機以及電腦。
- 天線的安裝應避免有障礙，我們建議您與音響設備保持距離。
- 請勿將天線的導線與電線纏繞在一起，這樣會產生噪音。環形天線不要放置於會聽到裝置音響的地方。

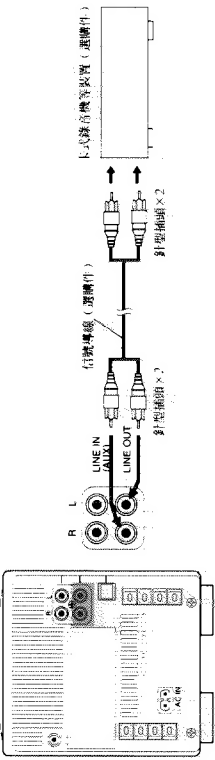
外用聲線裝置的连接

- 連接卡式錄音機或唱機等裝置（線路輸入）（AUX）
本機可外接的卡式錄音機或唱機來接收這些音源的聲音。



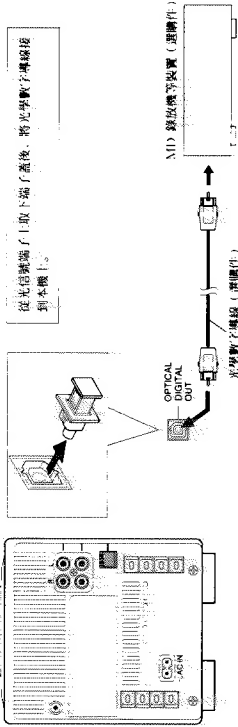
● 連接卡式錄音機等裝置（線路輸出）

當從本機的 CD 唱機或收音機輸出卡式錄音機等裝置時，請將本機的線路輸出端子用導線接到卡式錄音機等裝置的輸入端子上。



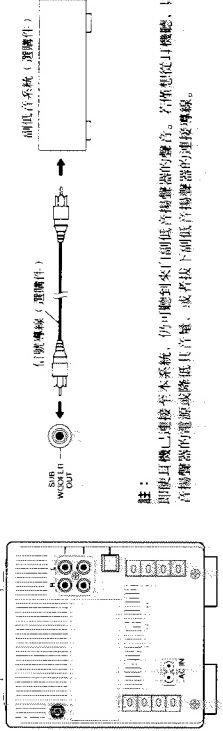
● 連接 MD 錄放機等裝置（數字輸出）

數字音響信號可由本機的 CD 唱機直接傳送到外部的帶光信號輸入端子的 MD 錄放機等裝置。這時，請將本機的 CD 光學數字輸出端子用導線接到 MD 錄放機等裝置的光信號輸入端子上。



- 做此連接時需使用光學數字導線（選購件）。詳細說明請參照 MD 錄放機等裝置的使用說明書。

- 連接副低音系統（副低音輸出）
本機可外接 LVC 副低音系統。

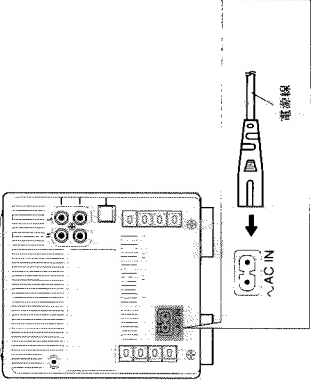


註：
即使耳機已連接至本系統，仍可聽到來自副低音揚聲器的聲音。若係想從主機聽，則請關閉副低音揚聲器的電源或降低其音量，或者拔下副低音揚聲器的連接導線。

註：
關於外接裝置的连接及其操作，請參照相應裝置的使用說明書。

電源

- 連接交流電源線。

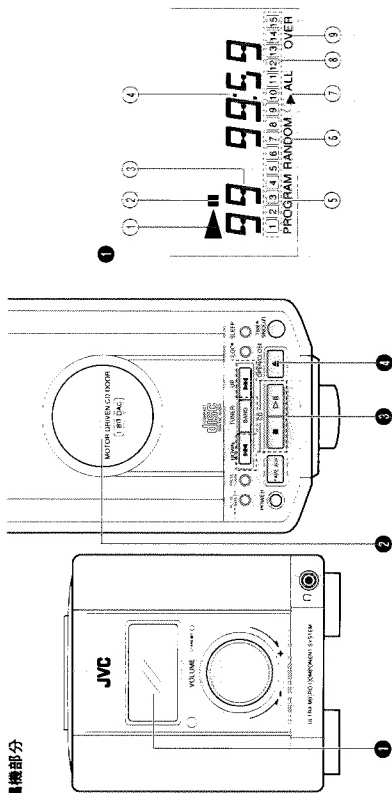


- 注意：
1. 請務必使用配備的 JVC 電源線，以防功能失靈或者損壞設備。
 2. 出門或者長期不使用本機時，請將電源插頭從電源插座上拔下。

- 註：
- 若停電或電源線斷路後，定時/時鐘設定即被清除，恢復供電後請重新設定時鐘。

各部件的名稱以及功能

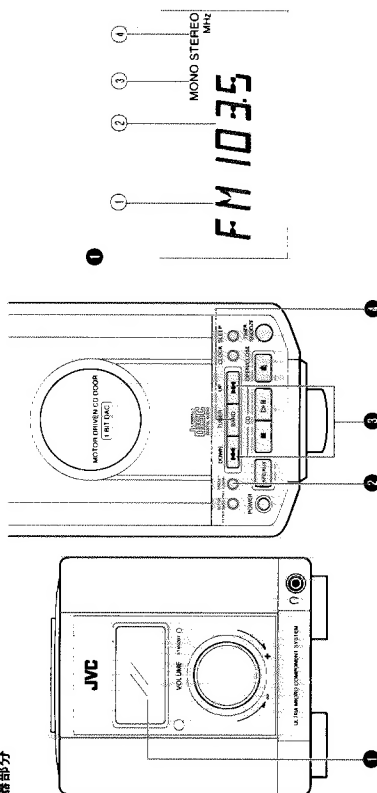
CD 唱機部分



- 顯示窗**
- ① 播放指示燈 (▶)
 - ② 暫停指示燈 (⏸)
 - ③ 功能／樂曲號碼顯示
 - ④ 播放時間顯示
 - ⑤ 程序方式指示燈 (PROGRAM)
 - ⑥ 隨機播放指示燈 (RANDOM)
 - ⑦ 重複播放指示燈 (REPEAT)
 - ⑧ 樂曲號碼顯示
 - ⑨ 超過指示燈 (OVER)
- CD 托架**

- CD 操作鍵**
- ① 停止／消除鍵 (■)：按壓此鍵停止播放 (CD) 或取消播放。
 - ② 快進／暫停鍵 (⏸)：按壓此鍵播放 (CD) 或暫停播放。
 - ③ 搜尋鍵 (SEARCH) (◀▶)：按壓此鍵播放 (CD) 或開始/向前或向後搜尋。
 - ④ CD 托架 (▲) 開／關閉 (OPEN/CLOSE)

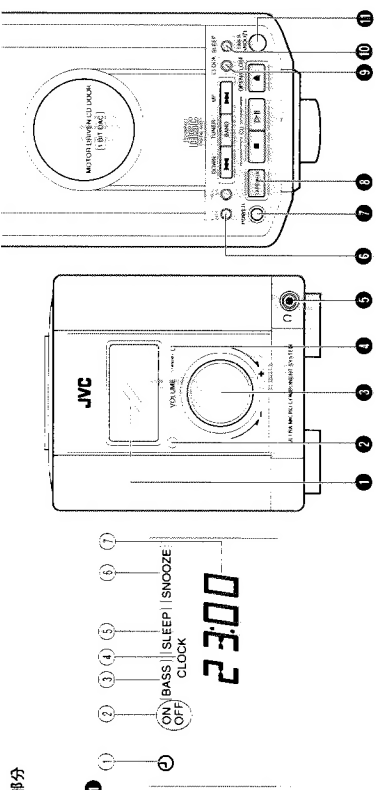
調諧器部分



- 顯示窗**
- ① 波段指示燈
 - ② 無線電頻率顯示
 - ③ 頻道調諧方式顯示 (MONO)
 - ④ 立體聲指示燈 (STEREO)

- ⑤ 預設調諧鍵 (PRESET TUNING)
- ⑥ 調諧鍵 (TUNING)
- ⑦ 調諧器/波段鍵 (TUNER/BAND)：按壓此鍵選擇調諧方式
- ⑧ 按壓此鍵選擇播放。

組合部分



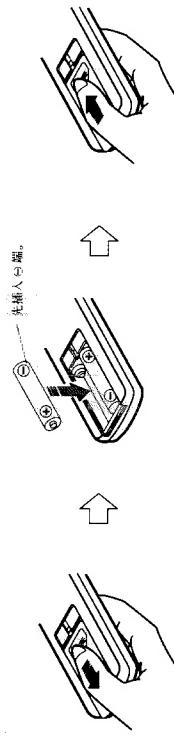
- 顯示窗**
- ① 定時方式指示燈
 - ② 定時指示燈 (ON/OFF)
 - ③ 有源超低音產生指示燈 (BASS)
 - ④ 時鐘指示燈 (CLOCK)
 - ⑤ 入睡指示燈 (SLEEP)
 - ⑥ 睡眠指示燈 (SNOOZE)
 - ⑦ 時間顯示
 - ⑧ 音量電平顯示
 - ⑨ 遙控感應器部分

- ⑩ 音量控制旋鈕 (VOLUME)
- ⑪ 電源指示燈 (STANDBY)
- ⑫ 頭帶式耳機插孔 (○) (直徑 3.5 毫米的標準立體聲耳機插孔)
- ⑬ 有源超低音產生器 (ACTIVE HYPER-BASS PRO) 連接：頭帶式耳機插孔 (6 毫米) 插入此插孔，當連接有源超低音產生器時，聲音自動調節。
- ⑭ 電源鍵 (POWER)
- ⑮ 睡眠／輔助鍵 (TAP/AUX)
- ⑯ 時鐘鍵 (CLOCK)
- ⑰ 入睡鍵 (SLEEP)
- ⑱ 定時／睡眠鍵 (TIMER/SNOOZE)

遙控器

使用前的準備工作

- 將電池裝入遙控器
- 1. 打開遙控器背面的電池蓋。
- 2. 裝入 2 節 "R6/AA (1.5V)" 電池。
- 裝入的方向，按照電池蓋內所示的方向裝，不要將 ⊕ 端了弄錯。



- 3. 重新蓋上蓋子。

電池的更換




- 如果遙控器的機械失靈，或者機械距離變短了，此時請更換新的電池。

遙控器的使用方法

- 對準遙控感應器部分，在 7 米內操作。
- 當以廣角模式，一定的角度使用遙控器時，其遙控距離會減少。
- 不要讓遙控感應器部分受到強烈的直射陽光或燈光照射。
- 確保在遙控器與遙控感應器之間沒有障礙物。

單碟收音 (COMPU PLAY)

即使電源設定於待機 (STANDBY) 位置，也可按壓下述鍵接
而電源並選擇音源。

各功能	操作
 TUNER BAND	輸入CD唱片，按壓此鍵組，CD唱片的收音開始。
 TAP/REPEAT	按壓此鍵組，調諧器快速通過。
 TAP/REPEAT	雙源可以連接至輔助端子 (線路輸入 (輔助) LINE IN (AUX))。

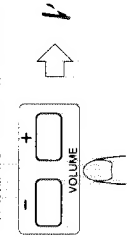
當按壓 (▲) OPEN/CLOSE 鍵時，音源不會轉換，在CD 托架
會打開或關上。

注意：
● 要關閉電源時，定製按壓 POWER 鍵組。
● 遙控器上的 (COMPU) PLAY 鍵組與主機上的具有相同的功
能。

音量、音調和其它控制

音量 (VOLUME) (使用遙控器)

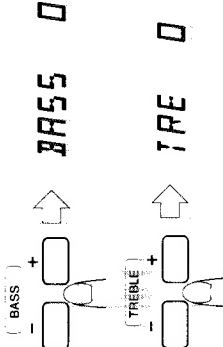
▲：用來增大音量。
▼：用來減小音量。
(音響範圍從 VOL. 0 至 VOL. 50)



● 當電源關閉時，聲音從音響電平 0 (零) 漸漸增強到電源關閉
前所使用的電平。(在漸強方式進行中，操作 VOLUME 鍵
或控制按鈕即判斷漸強操作。)

低音/高音 (BASS/TREBLE) (使用遙控器)

要設定低音或高音電平，按壓相應的鍵。電平設定範圍在 -6 到
6 之間。



有源超低音產生器

ON：低音 (BASS) 指示燈點亮。設定於此位置以啟動有源超
低音產生 (ACTIVE HYPER-BASS PRO) 後。
OFF：低音 (BASS) 指示燈熄滅。若不需要有源超低音產生
(ACTIVE HYPER-BASS PRO) 音，請設定於此位
置。

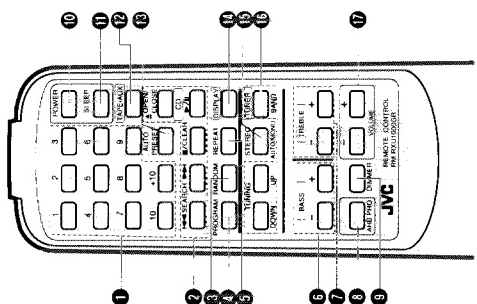
調光鍵 (DIMMER) (使用遙控器)

● 當電源關閉時：
按壓此鍵減弱顯示燈的亮度。再按壓一次此鍵，顯示燈恢復
通常亮度。
● 當電源關閉時：
要觀看時鐘顯示時，按壓此鍵：顯示燈亮 10 秒鐘後熄滅。
(電燈關閉。)
● 在這 10 秒鐘內，除電源控制按鈕和 TUNER/ON/OFF 鍵外
的所有鍵都不起作用。



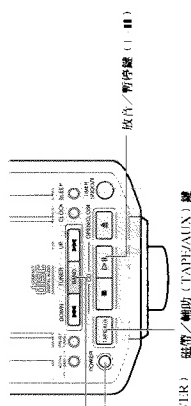
使用遙控器可操作下列各項功能。

● 仔細檢查各個功能圖的圖示，並且正確使用它們。



- 1 樂曲號碼鍵 (第1號到第10號，+10)
- 2 頻道電台鍵 (第1號到第10號，+10)
- 3 CD操作鍵
CD托架 (▲) 開/關鍵 (OPEN/CLOSE)
播放/暫停鍵 (▶/⏸)
按壓此鍵播放CD或暫停。
停止/清除鍵 (■/CLEAR)
按壓此鍵清除 (RANDOM)
按壓此鍵 (PROGRAM)
按壓此鍵 (BASS +, -)
按壓此鍵 (TREBLE +, -)
按壓此鍵 (ACTIVE HYPER-BASS (AIBR) PRO)
- 4 調光鍵 (DIMMER)
- 5 電源鍵 (POWER) 鍵
- 6 睡眠/待機鍵 (SLEEP)
- 7 收音/輔助鍵 (TAP/AUX)
- 8 自動預設鍵 (AUTO PRESET)
- 9 顯示鍵 (DISPLAY)
- 10 收音機操作鍵
- 11 調諧器/波段鍵 (TUNER/BAND)
按壓此鍵選擇調諧方式。
按壓此鍵選擇波段。
調諧鍵 (UP/DOWN)
- 12 音量鍵 (VOLUME) (+, -)

電源的接通與斷開

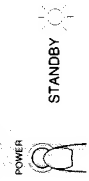


電源的接通與斷開

● 接通電源：



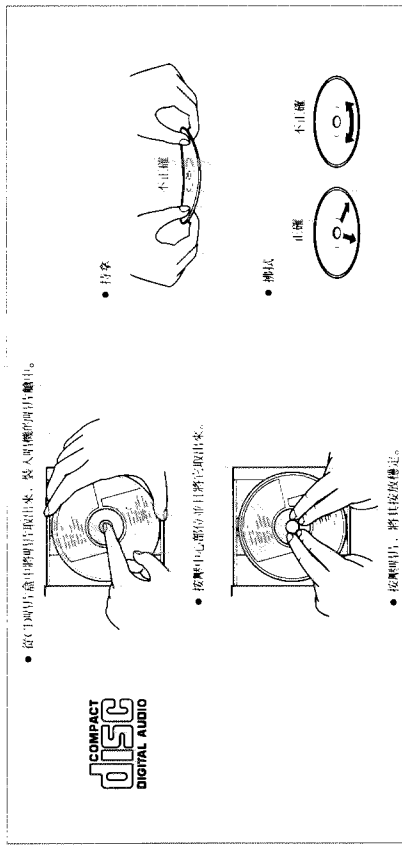
● 斷開電源：



有關 CD

由於光碟的、相鄰的、彎曲的唱片會損壞機器，因此必須注意下列事項：

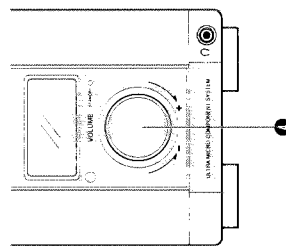
1. 可用的 CD 唱片
請使用有所示標誌的 CD 唱片。
2. 關於使用 CD 唱片的注意事項
 - 切勿觸摸反射面，鏡面有聲音的面。
 - 切勿在有標籤的面刮傷或磨損。
 - 切勿磨損 CD 唱片。
3. CD 唱片的保管
 - 將 CD 唱片從機器取出後，務必取出唱片盒。
 - 切勿讓唱片接觸陽光下、取脂帶等的高溫中、濕氣以及灰塵之中。
4. CD 唱片的清潔
 - 在將 CD 唱片裝入唱機之前，請用柔軟的布拭去灰塵、污穢以及指印。應從中心往邊緣方向擦拭。
- 切勿使用稀釋劑、發熱性汽油、唱片清潔劑以及抗靜電噴霧劑。



CD 唱片的放音

播放整張 CD
下面為播放整張 CD 之例，假定 CD 中有 12 個樂曲，總播放時間為 48 分 57 秒。

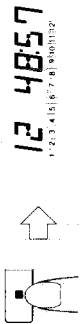
如下所示進行操作



- 在機器打開 CD 托架。(電源接通。)
- 有標籤的面朝上裝入 CD 托架。
- 按開播放鍵。
- 隨著樂曲的播放，樂曲號碼逐漸增加。
- 調靜。

● 若要在播放 CD 時停止播放

在播放期間，按壓停止/調靜鍵，CD 將來停止播放。



● 顯示樂曲數目總播放時間。

● 若暫停 CD

按壓「II」鍵來暫停播放。「II」指示燈點亮。當再次按壓此鍵時，CD 將從暫停的開端開始重新播放。

注意：

● 變更後 CD 時，按停止/調靜鍵，在取出 CD 前先確認 CD 是否已完全停止。

注：

- 如果沒有 CD 在內，「NO DISC」會出現在顯示器上。CD 倒裝反時，此顯示也會出現。
- 當 CD 燒錄或刻錄時，或 CD 面朝上時，將會出現下面的指示。
- 當發生這種情況時，先將 CD 取出，重新插入 CD 後再次插入。



- 請勿在過高或過低的溫度下使用本機。推薦的溫度範圍為 5°C 到 35°C。
- 播放後，請取出 CD。
- 若在播放期間發生尋曲錯誤，請降低音量。

跳越放音

● 在放音中，可以有兩種跳越至下一樂曲的曲頭或是在後跳越至放音中樂曲的曲頭或是在已播放音段前，支樂曲的曲頭。當您要選聽的樂曲的曲頭被找到後，就會自動開始播放。

跳下一支樂曲...

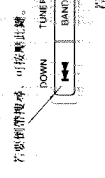
若要聽下一支樂曲，按壓「>」鍵便可跳過至下一樂曲的曲頭。

跳前一支樂曲...

若要聽前一支樂曲，按壓「<」鍵便可跳過至放音中樂曲的曲頭。如果快速按壓兩次便可跳過至前一支樂曲的曲頭。

搜尋放音 (在 CD 唱片中搜尋您所需要的某個位置)

● 若要在 CD 唱片中搜尋您所需要的某個位置，可以在放音中，用快速搜尋或慢速搜尋來進行。按此鍵來快速反向搜尋。



若要用慢速搜尋，可按此鍵。

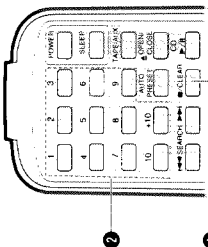
若要用快速搜尋，可按此鍵。

● 按壓此鍵，搜尋時間的時限，然後逐漸停頓。

● 在搜尋的過程中，當您聽到您所需要的音時，請按壓按鍵的鍵。

直接進入播放 (使用遙控器)

● 按壓「>>>」鍵，樂曲號碼顯示器可從指定的樂曲的開端開始播放。不必按壓「II」鍵。(此功能不能用於播放音中。)



● 按「>>>」鍵放音 CD 方式。

● 用樂曲號碼顯示器指定所要的樂曲。

● 根據樂曲號碼，按壓與之相符的樂曲號碼鍵，以選擇 1 至 10 的樂曲號碼。

● 若要選擇 11 以上的樂曲號碼，根據所選擇的樂曲號碼的數字按壓「+10」鍵，然後按樂曲號碼鍵 (譬如，要選擇第 20 號樂曲，先按壓「+10」鍵，然後按樂曲號碼鍵「10」)

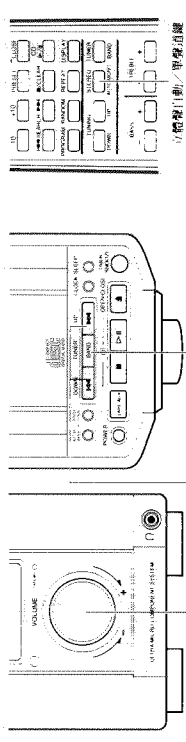
● (10) 鍵：

每按壓一次此鍵，數字便增加 10。先按壓此鍵設定十位數，然後按壓樂曲號碼鍵指定所要的樂曲。

● 若在放音中跳至另一支樂曲
當按壓所需的樂曲號碼鍵時，顯示器顯示出指定的樂曲號碼，放音從指定樂曲的開端開始進行。

無線電廣播的接收

按照下列順序操作



- 1 按壓 TUNER/BAND 鍵。
 - 電源被接通，波段以及密頻頻率被顯示出來。
- 2 選擇波段。
- 3 調節出您所想要的電台。
- 4 調節。

立體聲 自動/單聲道 (STEREO AUTO/MONO) 鍵 (使用遙控器)

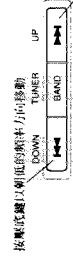
- 自動方式：
 - 當接收立體聲或單聲道 FM 立體聲廣播時，可設於此位置。當收到 FM 立體聲廣播時，STEREO 指示燈會點亮。
- MONO：
 - FM 立體聲接收器過大時，請設定於此位置，常用單聲道方式 (MONO) 調入其它的電台時，本機則自動轉入自動方式。

搜尋調諧

按壓 UP 或 DOWN 鍵，或 秒鐘以上。裝置進入選單調諧方式並自動調諧到最近的 個電台。這樣便能聽到廣播。

手動調諧

每按壓一次 UP 或者 DOWN 鍵，收音機過正在接收的頻率半波段。FM和AM 的廣播範圍分別為 50 kHz/100 kHz (FM)，9 kHz/10 kHz (AM)。



- 註：
 - 當由於強廣播電台的干擾太強不能找到希望的電台時，請短促地按壓 UP 或 DOWN 鍵來進行手動調諧。
 - 當將電台調諧到 STANDBY (待機) 方式，或設於其他方式 (CD或TAPE/AUX) 時，最後所接收的電台的頻率將被儲存在記憶裝置中。當再次接通電源，和按壓 TUNER/BAND 鍵時，將會收聽到同一電台。

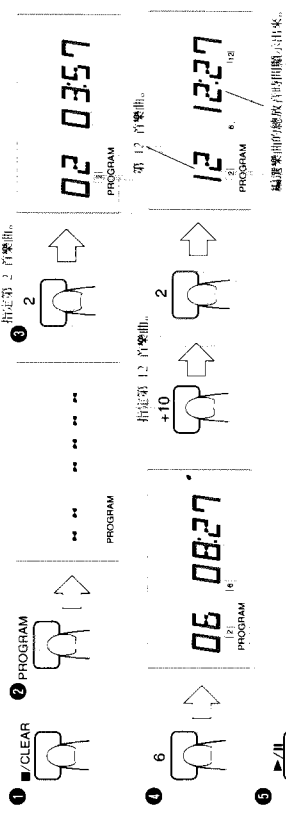
自動預設調諧 (使用遙控器)

此功能能根據廣播電台的頻率，來搜尋正在播放的波段，並且，自動地將前面的 15 個電台頻率儲存在記憶裝置中。

- 按 AUTO PRESET 鍵 2 秒鐘以上。廣播電台的頻率將會按頻率增加的順序自動存儲在記憶庫中。(各頻道為15個電台)

編碼收音 (使用遙控器)

- 可以存儲所需順序最多編碼播放 20 首樂曲。
 - (例：按第 2 首樂曲，第 6 首樂曲，第 12 首樂曲等的順序編碼播放時)。



- 1 按壓 CLEAR 鍵。
 - 按壓 PROGRAM 鍵設定編碼方式。
 - 按壓號碼鍵指定想要播放的樂曲號碼。
 - 按壓樂曲號碼鍵指定剩餘的樂曲。
 - 當結束編碼時按壓 >|| 鍵，開始編碼播放。

確認程序的編碼...

在停止方式下按壓PROGRAM鍵，被編碼的樂曲將會按編碼的順序被顯示出來。



清除被編碼的樂曲...

在開始播放CD之前按壓 CLEAR 鍵。在編碼播放期間，兩次按壓此鍵。

- 註：
 - 如果編碼樂曲的總放音時間超過 99 分 59 秒，總放音時間顯示消失。
 - 當插入樂曲數超過 16 首的 CD 時，"OVER" 指示燈會出現。

- 重複重播 (REPEAT) 鍵。
 - 正在播放的樂曲將被重複播放。
- 全部重播 (ALL) 鍵。
 - 所有樂曲或 CD 上的編碼樂曲將被重複播放。
- 隨機播放 (RANDOM) 鍵。
 - 所有樂曲或 CD 上的所有樂曲按隨機順序播放一遍。

故障的檢查與排除

(保養)

睡眠定時器的操作

定時播放



A. 在要睡覺前播放或 CD 入睡時利用此功能。
① 設定要播放的播放頭和曲目或播放 (CD)。
② 按壓 SLEEP 鍵，以設定睡眠時間。

● 可進行 CD 或磁帶電聲的定時播放。
● 操作

並非所有問題都是嚴重的。
首先檢查一下...
● 電源無法接通。
* 電源線接插是否插好了？
● 播放聲沒有聲音。
* 是否有耳機插著？
CD 唱機部分
● CD 唱機沒有聲音。
* 唱片正確地插入，但是否倒下了？
* 唱片是否刮傷了？
* 某些地方的放音有異常。
* 唱片是否有劃傷？
調諧部分
● 收音有噪音。
* 嘗試大聲。
定時器部分
● 定時器不啟動。
* 現在時間的設定是否正確？
* 定時功能的指示 (D) 是否被顯示出來了？
遙控器
● 遙控器失靈。
* 遙控器的電池是否耗盡？
* 遙控感應器是否受強烈光源 (日光線等) 影響？

清潔工作是極為重要的！
調諧的清潔
如果 CD 播放器上出現頑固，聲音失真等現象會使聲音變差。
請用 CD 托架，如圖所示清潔設備。
● 用吹氣筒 (附有吸嘴) 吹掉設備上的灰塵。
● 若有指紋等附於設備上，請用棉布輕輕拭淨。

睡眠的定時時間 (解除睡眠定時)
30 - 60 - 90 - 120
按壓 SLEEP 鍵，解除睡眠定時。
睡眠的定時時間有 30 分、60 分、90 分及 120 分可被選擇。當按壓 SLEEP 鍵解除睡眠定時以後，過 5 秒鐘聲音就會被顯示出來。
● 當設定的時間到時，睡眠的定時功能便起作用，電源便被斷開。
● 檢查睡眠定時的時間
按壓 SLEEP 鍵，剩餘的睡眠時間便會被顯示出來。如果直接按壓一次 SLEEP 鍵，您還可以重新選擇一個新的睡眠時間。
● 若要取消睡眠定時的設定
按壓 POWER 鍵，關閉電源。或者按壓 SLEEP 鍵，有睡眠定時的時間顯示消失。
B. 要聽廣播或播放 CD 入睡並在次日清晨進行定時放音
① 設定定時器。(請參看第 16 頁上的「設定定時器」)
② 選擇要聽的廣播 (電聲廣播或者 CD 播放)。
③ 按壓 SLEEP 鍵，將定時睡眠定時時間。

按壓 POWER 鍵，接通電源。
● 設定定時器。(請參看第 16 頁上的「設定定時器」)。
● 當電源接通時，定時器將於定時時間開始，並且電源將於定時時間停止時間開始。
即使電源關閉以後，該定時器仍將被儲存於記憶裝置中，第二天將於同樣的時間重複同樣的定時功能。
● 當接通電源時，聲音可能從音電平 0 輸入增強至預設的音電平。
● 若要取消定時設定
按下定時器 TIMER/SNOOZE 鍵，這樣定時器方式指示 (D) 便會消失。
註：
● 當音電平設定為 "VOL-" (音電平未相定) 時，定時放音音電平將設為最低定時器前所出的電平。
● 若要在定時播放中停止播放，請按壓 POWER 鍵，關閉設備。
● 要增加 5 分鐘的入睡時間時...
當定時放音開始時，按壓 TIMER/SNOOZE 鍵，電源將斷，定時放音將在 5 分鐘後重新開始進行。(在假寐方式啟動中，假寐指示燈將會亮。)
THIRTY SNOOZE

註：
本系統的顯示器為使用 LED (發光二極管) 的背光源。LED 的高亮度有助於您清楚地觀看顯示。但 LED 可能會產生其輕微的集熱性。在晚上睡眠時房間中可能會聽見此聲音。此時，請從遙控器上的 DIMMER 鍵，顯示器的顯示將減弱，從而聽不見此動聲。



在定時放音進行中，在定時器停止時間前 5 分鐘內按 TIMER/SNOOZE 鍵可關閉電源，但定時放音不再重新開始。
(例：當定時器停止時間設定為 7:30 時，這 5 分鐘即為 7:25 至 7:30。)

4.Location of Main Parts

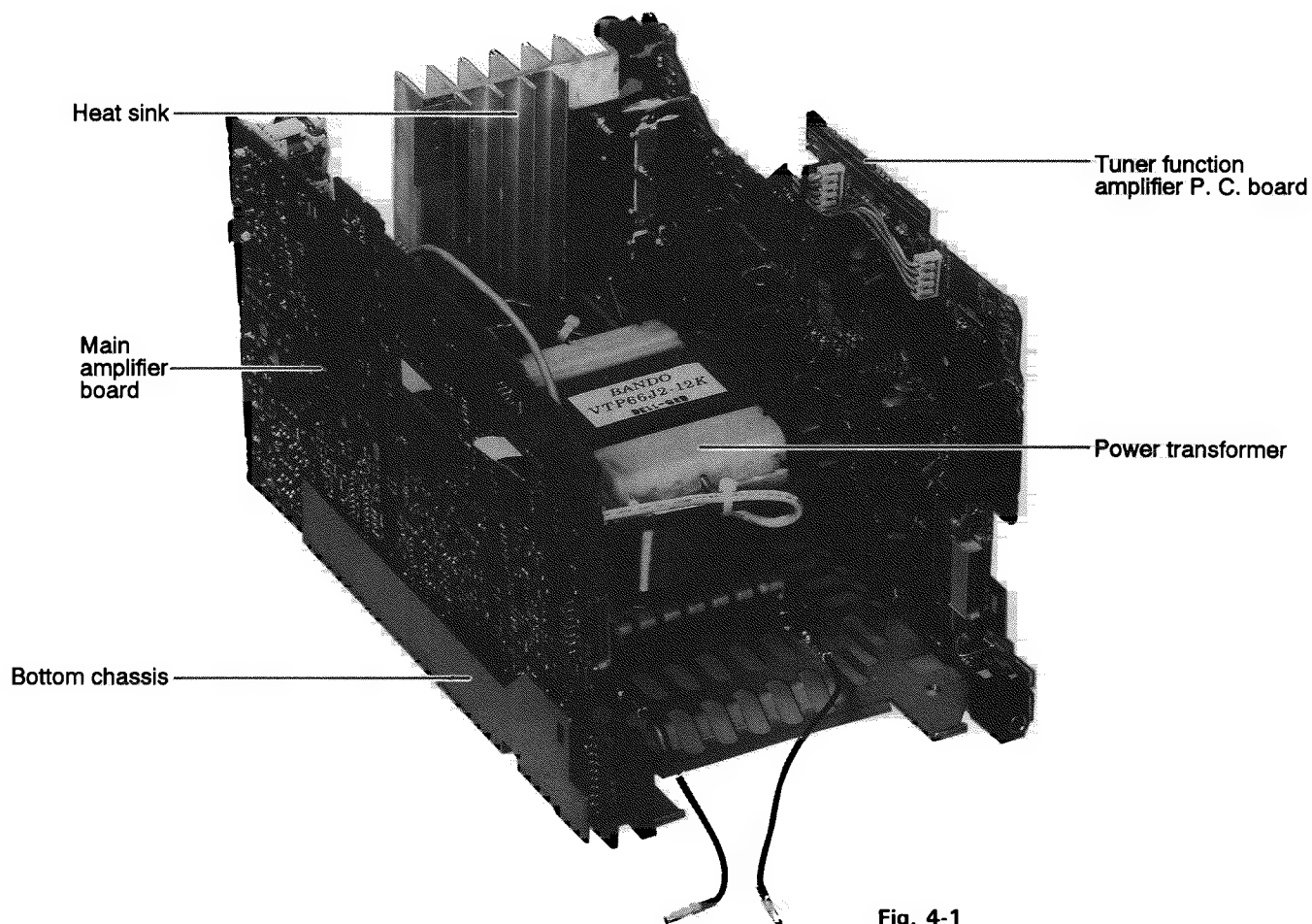


Fig. 4-1

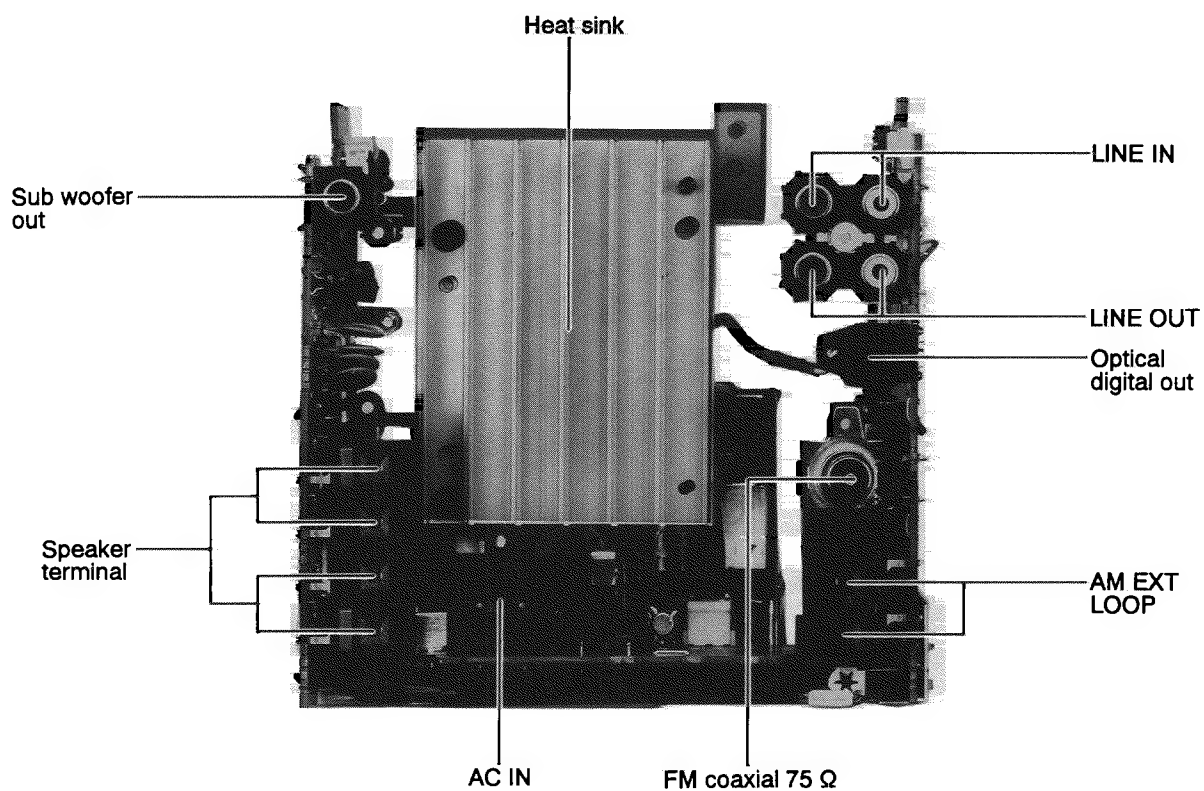
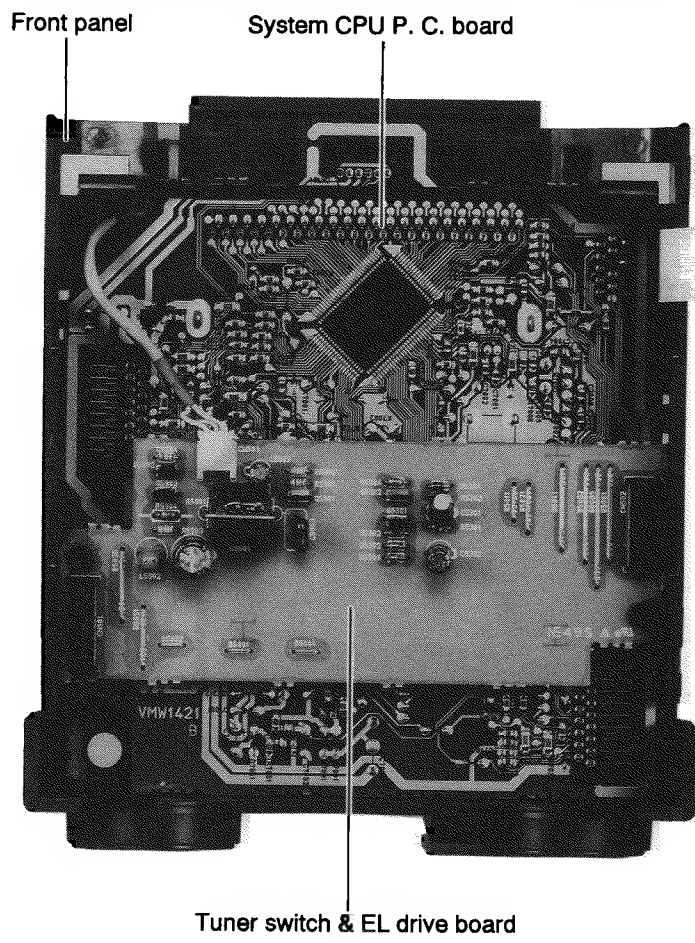
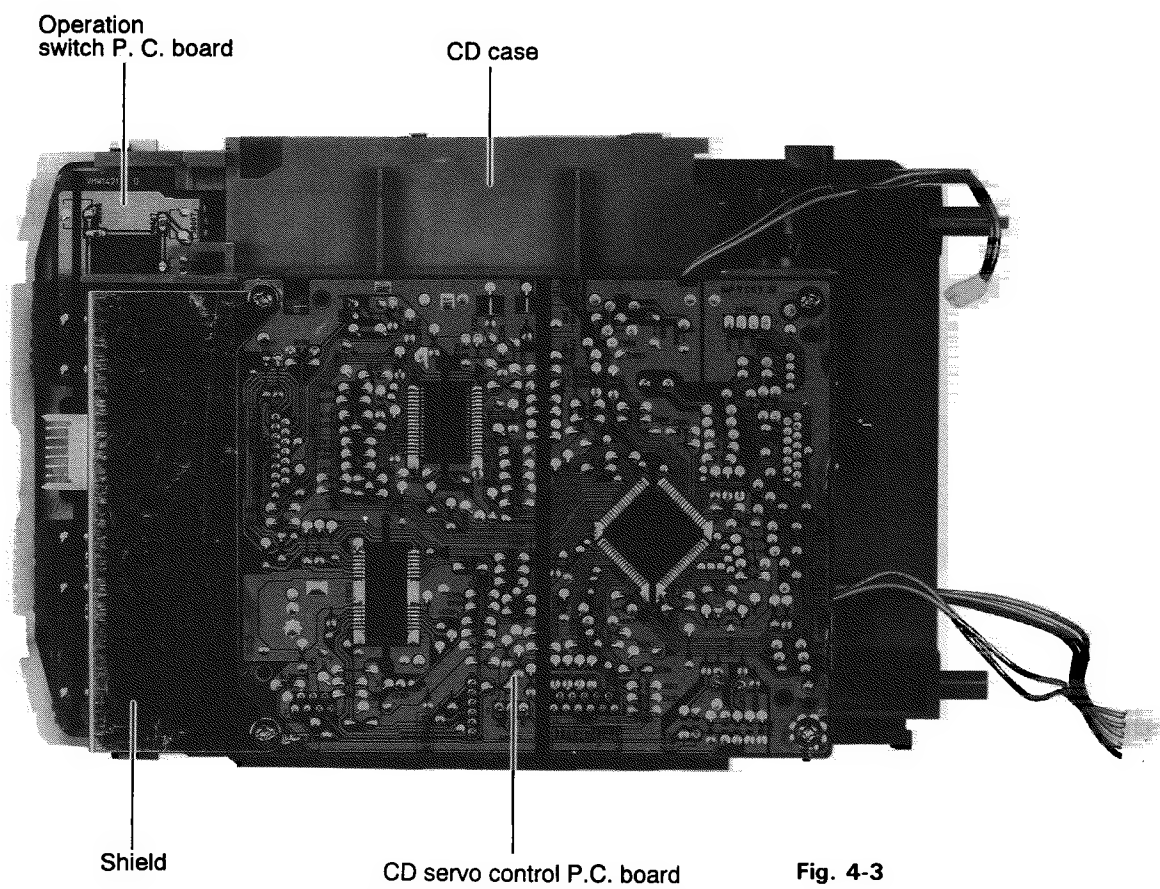


Fig. 4-2



5. Removal of Main Parts

■ Removing the rear cover and side panel (See Figs. 5-1~5-4)

1. • Remove the six screws ① retaining the rear cover from behind the body.
 • From the bottom face of the body, remove the four screws ② retaining the rear cover.
 • After passing the lock pawls at the speaker terminals through the position in Fig. 5-1, remove the rear cover.
2. • Remove the two screws ③ retaining both of the right and left side panels.
 • By moving the side panels (right and left sides) while pulling out the panels toward the rear side, disengage the upper two engagement sections, and dismount the panels while expanding them toward the front side.

※ For assembling (the rear cover and side panels), mount the upper two engagement sections while aligning the same in place at first, and assemble the rear cover and side panels while plugging (the cover and panels) toward the front side.

3. The side fitting should be pulled out upward.

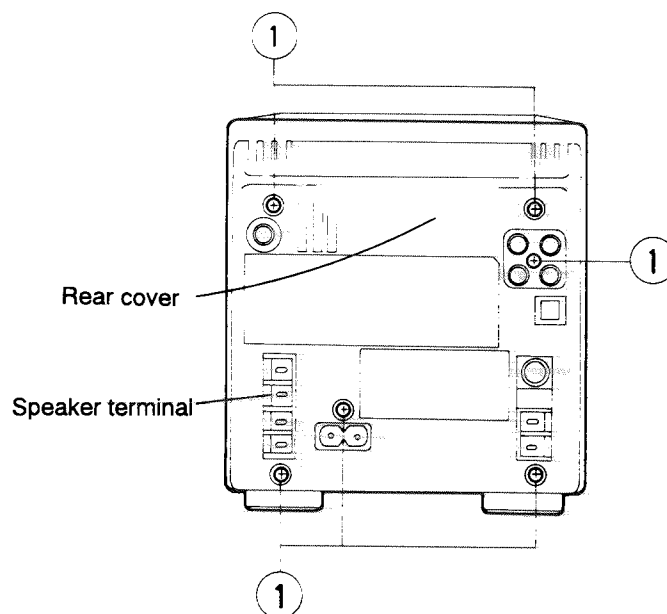


Fig. 5-1

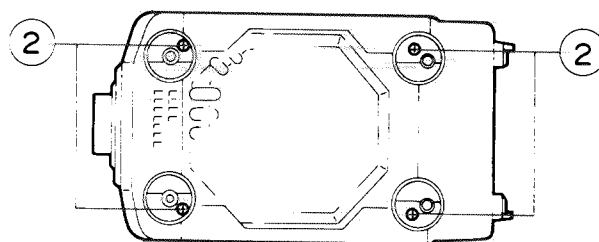


Fig. 5-2

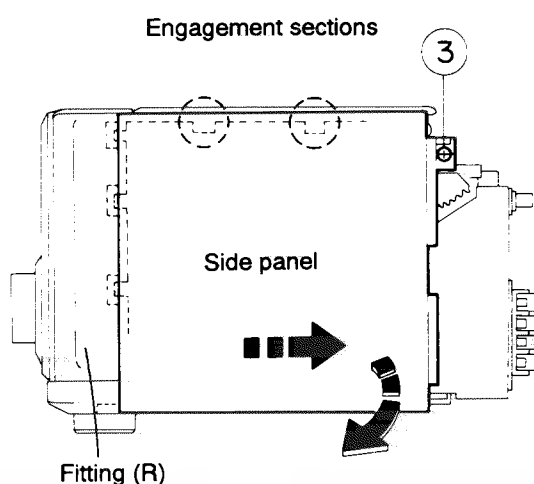


Fig. 5-3

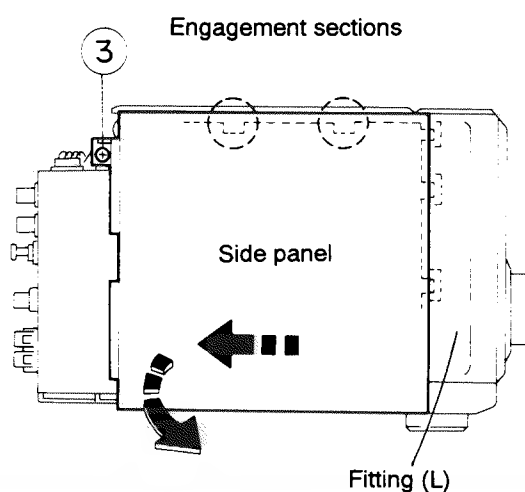


Fig. 5-4

■ Removing the CD player assembly

(See Figs. 5-5~5-7)

1. Remove the rear cover from behind the body.
2. Remove the side panels and fittings (L and R).
3. After removing the three screws ④ from behind the body, dismount the heat sink.
4.
 - From the side of the body, remove the two screws ⑤ retaining the CD player assembly.
 - Remove the one screw ⑥ retaining the tuner function amplifier P.C. board.
 - Remove the connector wires from the connectors CN643 and CN635 on the tuner function amplifier P.C. board, and then remove the card wires connected to the connector CN631 CD servo control P.C. board.
 - Remove the connector wire from the connector CN301 on the main board.
5. Remove the CD player while pulling it out toward the rear side.

Then, the connector CN801 connected to the connector CN781 on the LCD microcomputer P.C. board of the front assembly will be disconnected at the same time.

※ To ensure easy assembly of the CD player assembly, temporarily remove the tuner function amplifier P.C. board, and after mounting the CD player assembly, assemble the tuner function amplifier P.C. board.

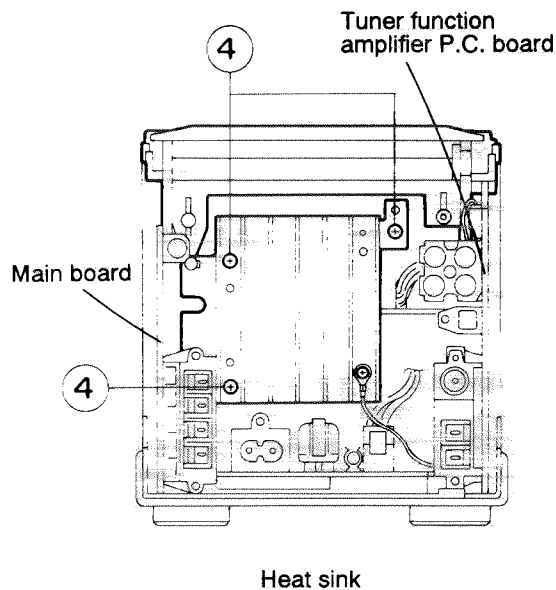


Fig. 5-5

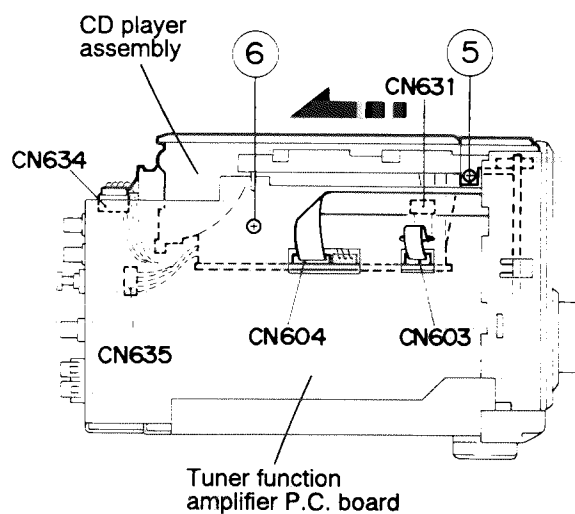


Fig. 5-6

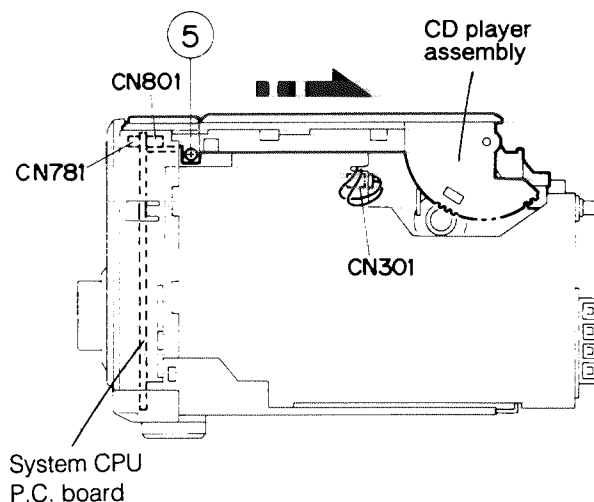


Fig. 5-7

■ Removing the CD player section

(See Figs. 5-8-5-13)

1. Remove the CD player assembly.
2. Removing the CD player assembly
 - Remove the two screws ⑦ retaining the shield.
 - Remove the remaining two screws retaining the CD servo control P.C. board.
 - Remove the card wire from the connector CN602 on the CD servo control P.C. board connected to the CD mechanism, and also the card wire from the connector CN601.
3. Removing the CD mechanism assembly
 - Remove the four screws ⑧ retaining the CD motor drive P.C. board.
4. Removing the CD motor drive P.C. board
 - Remove the two screws ⑨ retaining the CD motor drive P.C. board.
 - After disengaging the belt from the motor pulley, remove the CD motor drive P.C. board.
5. Removing the CD door assembly
 - Disengage the two engagement sections on both the right and left sides of the CD door while expanding the sections outward.
6. Removing the operation switch P.C. board
 - Remove the top panel while expanding the right and left side pawls outward.
 - Remove the operation switch P.C. board upward.

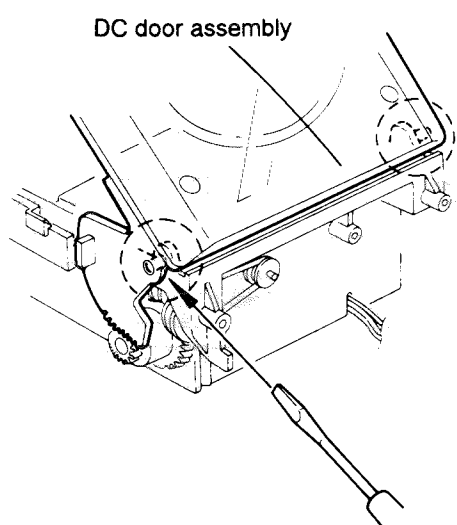


Fig. 5-10

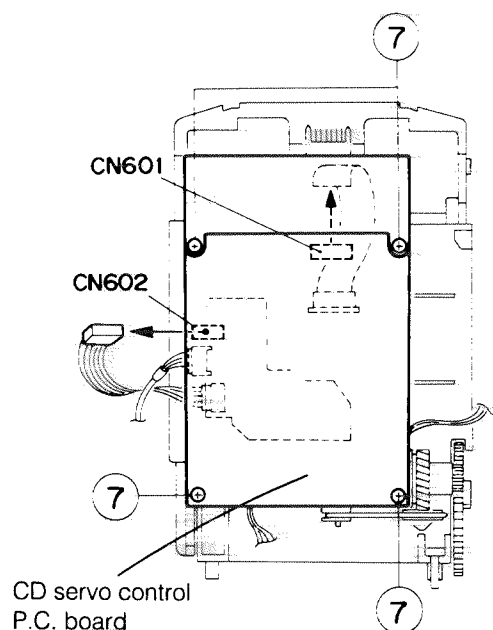


Fig. 5-8

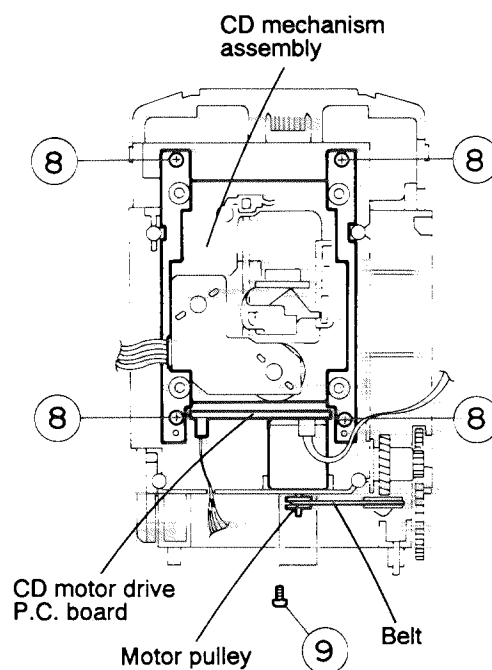


Fig. 5-9

■ Removing the tuner function amplifier P.C. board (See Figs. 5-14~5-16)

- Remove the connectors CN633 and CN632 on the tuner function amplifier P.C. board by pulling them out respectively from the front assembly.
- Remove the card wire from the post pin W6001 on the tuner function amplifier P.C. board.

■ Removing the main board

1. Remove the earth wire from the post pin CN531 on the main board.
2. Disconnect the main connector CN300 on the main board connected to the power supply P.C. board while expanding the main board outward.
3. Disconnect the connectors CN302 and CN303 on the main board toward the rear side by pulling the connectors out from the front assembly.

■ Removing the power supply P.C. board

1. After removing the two screws ⑩, disconnect the connector CN903 on the power supply P.C. board connected to the main board.
2. From the connectors CN902 and CN901, remove the connector wires outgoing from the power supply transformer.
3. While disengaging the power supply P.C. board and holder engagement, remove the power supply P.C. board.

■ Removing the power supply transformer assembly

- Removing the four screws ⑪. From the connectors CN902 and CN901 on the power supply P.C. board, remove the connector wire connected to the power supply P.C. board.

※ For assembly, position the primary side upward, and perform assembly of the respective parts.

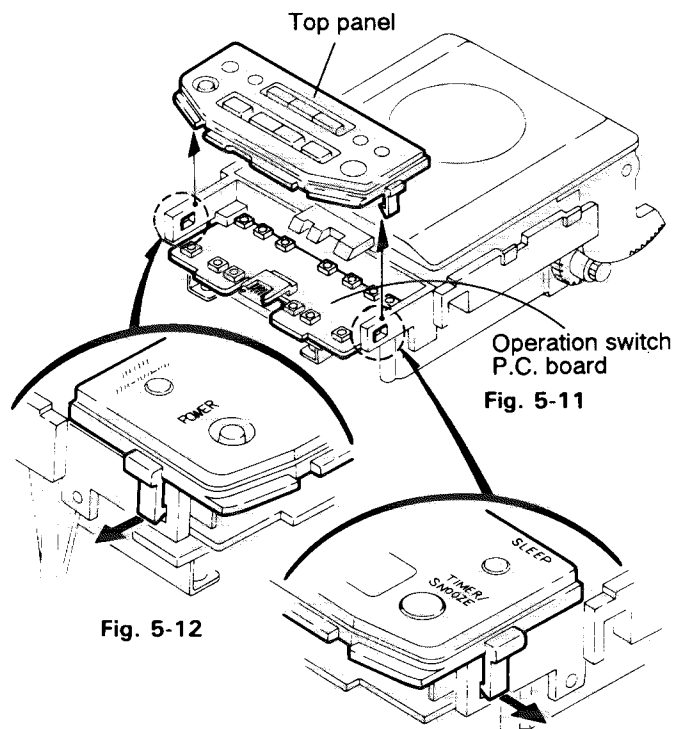


Fig. 5-12

Fig. 5-13

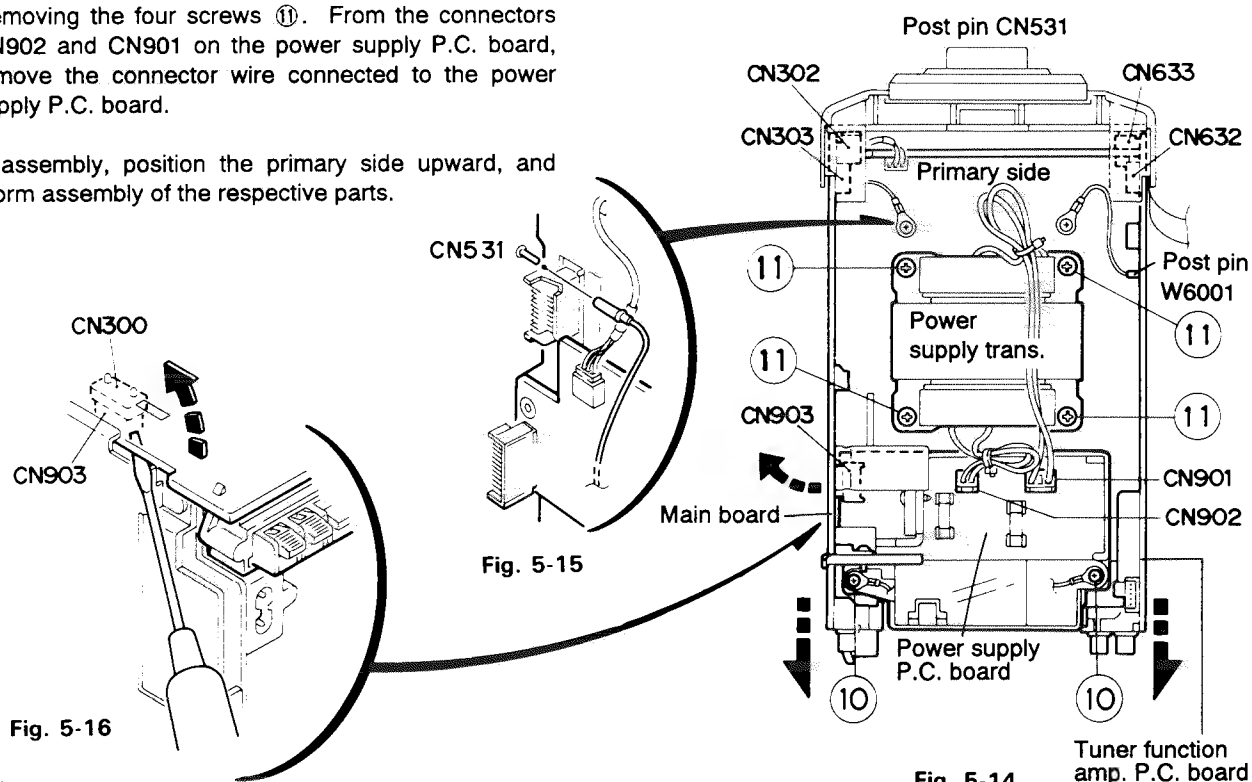


Fig. 5-15

Fig. 5-14

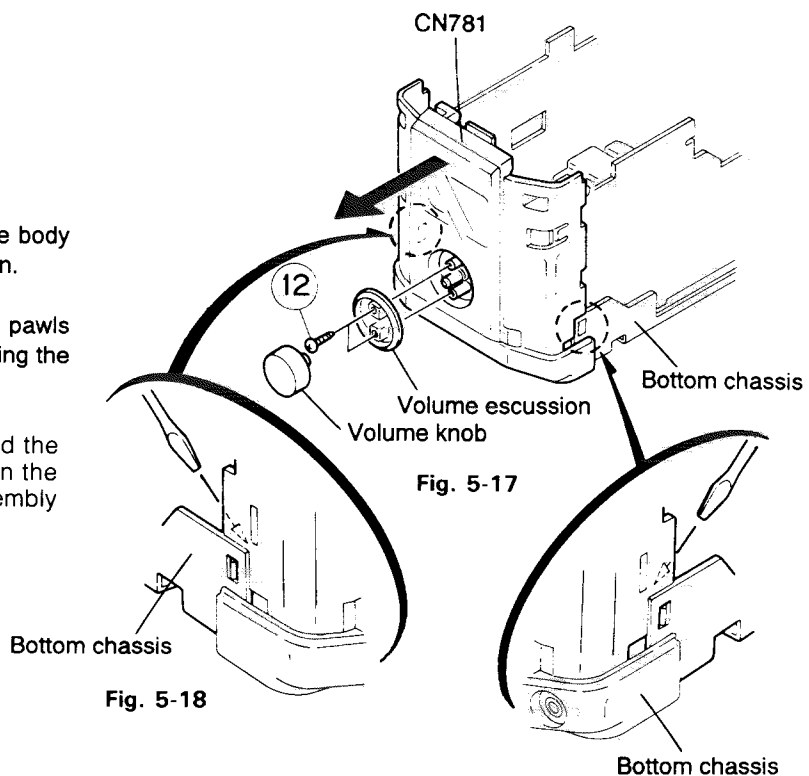
Tuner function amp. P.C. board

Fig. 5-16

■ Removing the front assembly

(See Figs. 5-17~ 5-19)

1. Remove the rear cover from behind the body.
2. Dismount the CD player assembly.
3. Remove the side panels and fittings (L and R).
4. After removing the knob from the front face of the body and two screws ⑫, dismount the volume escussion.
5. By using a driver and other tool, remove the two pawls provided on both the right and left sides for engaging the front assembly and bottom chassis.
6. After removing the front panel assembly toward the front side, disconnect the connector CN781 on the system CPU P.C. board from the CD player assembly at the same time.



■ Removing the tuner switch EL driver P.C. board and system CPU P.C. board

(see Figs.5-20 and 5-21)

1. • While expanding the engagement sections (a) and (b) with the front cabinet, remove the tuner switch EL driver P.C. board.
• Remove the connector wire from the connector CN503 connected to the system CPU P.C. board.
2. • Remove the one screws (13).
• While expanding the engagement sections (c) and (d) with the front cabinet to outside, remove the system CPU P.C. board.

● Assembly method

1. Insert the power supply P.C. board into the engagement section of the power supply P.C. board holder, assemble the power supply P.C. board on the bottom chassis together with the power supply P.C. board holder.
2. Subsequent to mounting the power supply transformer, the secondary side connector wire outgoing from the power supply transformer and the primary side connector wire on the power supply P.C. board should be connected respectively to the connectors CN902 and CN901 on the power supply P.C. board.
3. Connect the connector CN300 on the main board to CN903 on the power supply board, and assemble the main board on the bottom chassis.
4. Engage the front assembly exactly to the pawl at the engagement section of the bottom chassis, and connect the connectors CN302 and CN303 on the the main board respectively to the connector CN711 on the system CPU P.C. board of the front assembly and the connector CN501 on the tuner switch EL driver P.C. board.
5. Assemble the CD player assembly while plugging the connector CN801 on the operation switch P.C. board of the CD player assembly to the connector CN781 on the system CPU P.C. board of the front assembly.
6. Plug in the connectors CN633 and CN632 on the tuner function amplifier P.C. board to the connector CN502 on the tuner switch EL driver P.C. board of the front assembly and CN761 on the system CPU P.C. board.

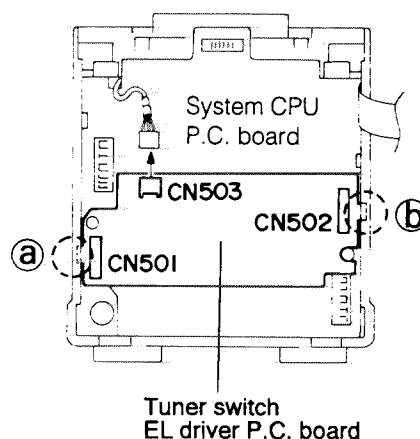


Fig. 5-20

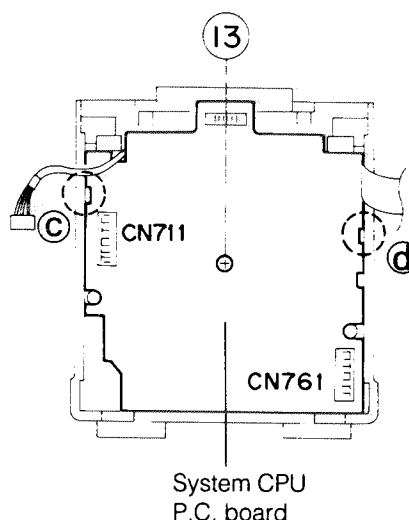


Fig. 5-21

6.Main Adjustment

■ Test Instruments required for adjustment

1. Low frequency oscillator
(Frequency range: 50Hz to 20kHz)
(Output : 0 dBs across 600 Ω terminating resistor)
2. Attenuator(Impedance : 600 Ω)
3. Test disc : CTS – 1000(Audio)
: CTS – 1000 & CRG – 1211S(Optical Control)
4. Extension cord : EXTUX1000 – JIG
5. Electronic voltmeter
6. Distortion meter
7. Jitter meter : NJM631
8. TE offset meter : LTM9055

■ Measuring conditions (Amplifier section)

Supply voltage AC110/127/230V (50/60Hz)

Reference output level :Speaker
0 dBs (0.775V) / 4 Ω
: Headphone
– 10dBs (0.245V)/ 32 Ω
:Line out
300mV(– 8.2dBs)/ 47k Ω

Standard test frequency

: 1kHz unless otherwise specified

Reference input level.....AUX – 8dBs

Output for measuring, unless otherwise specified

: at speaker terminal J3003(Dummy load :4 Ω

Posture of test..... Horizontal

● Standard position of function switches

Function switchto AUX

Active hyper – bass prop switch to off

● Standard position of volume control

Bass treble to center / flat position

Main volume adjust 0 dBs output position

● Test remarks

1. Negative side of the input and output terminals of the testing set, shall be isolated from each other. The negative side should not be commonly connect ed when a 2channel electronic voltmeter is connected.
2. A dummy load shall be connected to the output

terminal and the lead wires of dummy load shall be as thick as possible.

■ Measuring condition (Tuner section)

Rating source DC 12V

Power source to tuner : DC5.3V

Ference output Speaker : 60mW(0.49 V / 4 Ω)

Headphone : 0.066mV/ 32 Ω

AM modulation 400Hz, 30%

FM modulation400Hz deviation 22.5kHz

● Standard position of switches and controllers

Function switchto RADIO

Mode switchto STEREO

Bass0 center position

Treble0 center position

Active hyper – bass prop switch.....to off

● Tuner input position

LW / MW : Standard loop antenna

FM : Hot TP1(Extention terminal)

: GND TP2 Extention terminal)

● Arrangement of loop antenna

When measuring keep the loop antenna away from the set more than 20cm .In case a test item is affected by small noise (Ex. Quieting sensitivity more than 30cm is necessary.)

● Remarks for alignment

1. Connect 30 pF capacitor and 33 k Ω resistor to the output terminal of the IF sweeper in series while 0.082 μ F capacitor and 100k Ω resistor to the input terminal in series.
- 2.Set the output level of the IF sweeper as low as adjustable.
- 3.IF alignment is not necessary for both AM and FM MPX alignment is not necessary either. All IFTs and MPX coil are non – adjusting type.

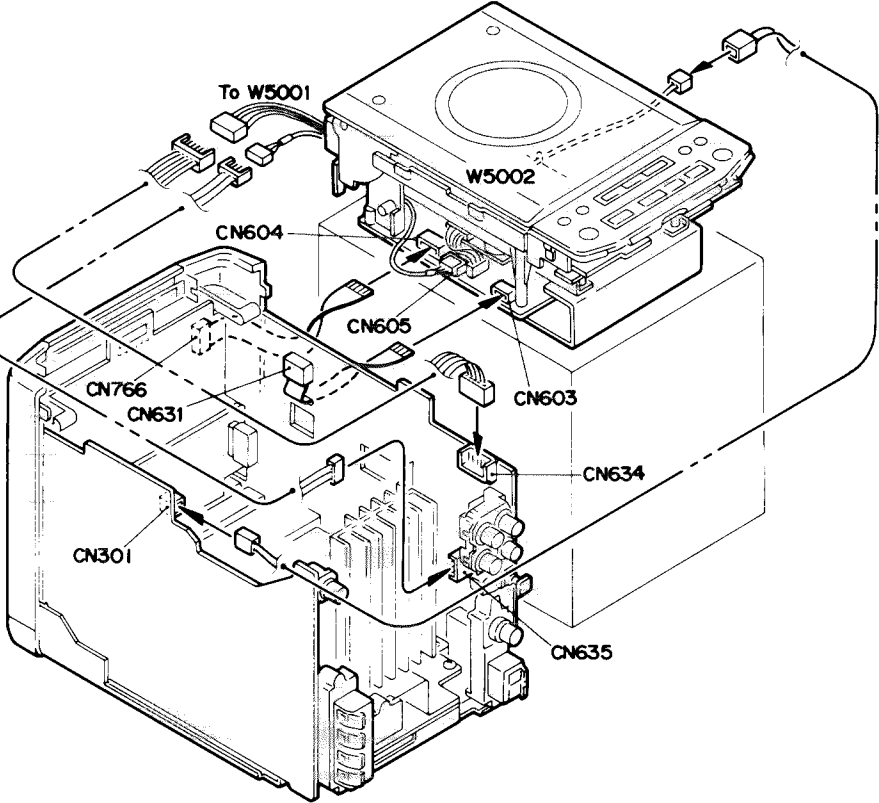


Fig. 6-1

(CD servo control board)

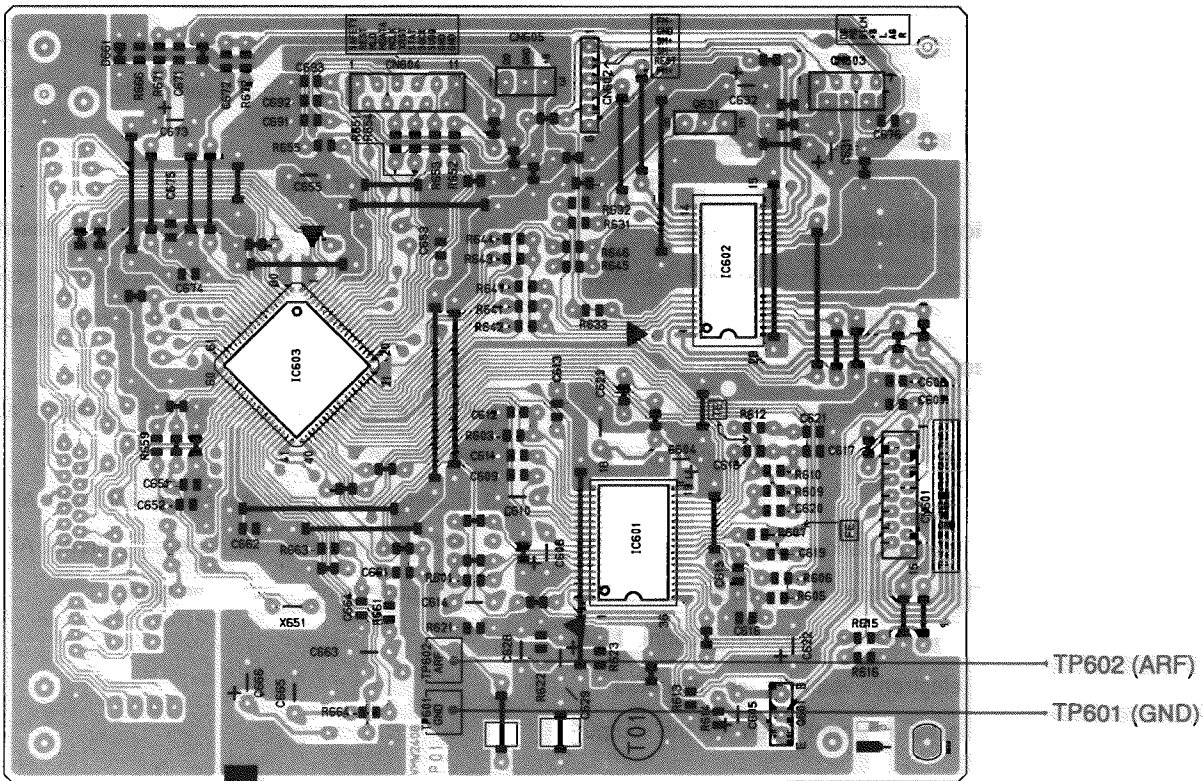
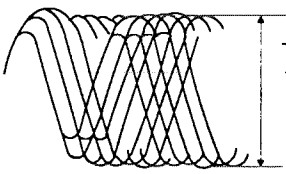


Fig. 6-2

■ Amplifier section

Items	Conditions	Adjustment and Confirmation procedure	Standard Value	Adjusting
1. Amplifier gain check	<ul style="list-style-type: none"> •Measuring instrument : Oscilloscope •Measuring point : AUX IN : Speaker terminal 	Input the 1kHz to AUX IN. Main volume is maximum. When speaker output becomes 0dB, input is $-19\text{dB} \pm 4\text{dB}$.	$-19\text{dB} \pm 4\text{dB}$	—
2. Noise level check	<ul style="list-style-type: none"> •Measuring instrument : Oscilloscope : Voltmeter •Measuring point : AUX IN : Speaker terminal 	<ul style="list-style-type: none"> • Switch and volume position Function switch : AUX. Bass treble : flat <p>When main volume becomes maximum, confirm that speaker output is less than 4mV. When main volume becomes minimum, confirm that speaker output is less than 2mV.</p>	<p>Less than 4mV</p> <p>Less than 2mV</p>	—
3. Line output check	<ul style="list-style-type: none"> •Measuring instrument : Oscilloscope : Voltmeter •Measuring point : AUX IN : Line out terminal •Test disc : CTS-1000 	When test disc (track 1) is played, confirm that Line out is $+4\text{dBs} \pm 4\text{dB}$.	$+4\text{dBs} \pm 4\text{dB}$	—
4. Sub woofer output check	<ul style="list-style-type: none"> •Measuring instrument : Oscilloscope : Voltmeter •Measuring point : AUX IN : Sub woofer output terminal •Test disc : CTS-1000 	Input the reference frequency 100Hz from AUX IN. By main volume is maximum position, bass and treble is flat position, confirm the sub woofer output is $-14\text{dBs} \pm 4\text{dB}$.	$-14\text{dBs} \pm 4\text{dB}$	—

CD section

Items	Conditions	Adjustment and Confirmation procedure	Standard Value	Adjusting
1. Jitter check	<ul style="list-style-type: none"> •Measuring instrument : Jitter meter •Test point :TP601(GND side) :TP602(ARF side) •Test disc :CTS-1000 	Connect the jitter meter between TP601(GND) and TP602(ARF) and when test disc (track 1) is played, confirm that the meter reading is 26n-sec or less.	26n-sec or less	—
2. RF level (eye pattern) check	<ul style="list-style-type: none"> •Measuring instrument : Oscilloscope •Test point :TP601(GND side) :TP602(ARF side) •Test disc :CTS-1000 	<p>Connect the oscilloscope between TP601(GND) and TP602(ARF) and when test disc (track 1) is played, confirm that peak-to-peak value of oscilloscope waveform is within $1.1V \pm 0.2V$.</p> <p>Eye-pattern waveform</p>  <p>The maximum value of this waveform should be in the range of specifications and the waveform should be clear</p>	within $1.1V \pm 0.2V$.	—
3. Outer most area check	<ul style="list-style-type: none"> •Test disc :CTS-1000 	Select "Track 26" on the outer area of test disc directly and check that it begins playback smoothly and that there are no abnormal conditions such as a tracking error.		—
4. Pickup unit movement check (From the outer area to the inner area)	<ul style="list-style-type: none"> •Test disc :CTS-1000 	Allow the pickup to skip over from the disc's outer most area to "Track 1" and check that it takes within 10 seconds for the player to enter play mode.	within 10 seconds	—

7. Trouble Shooting

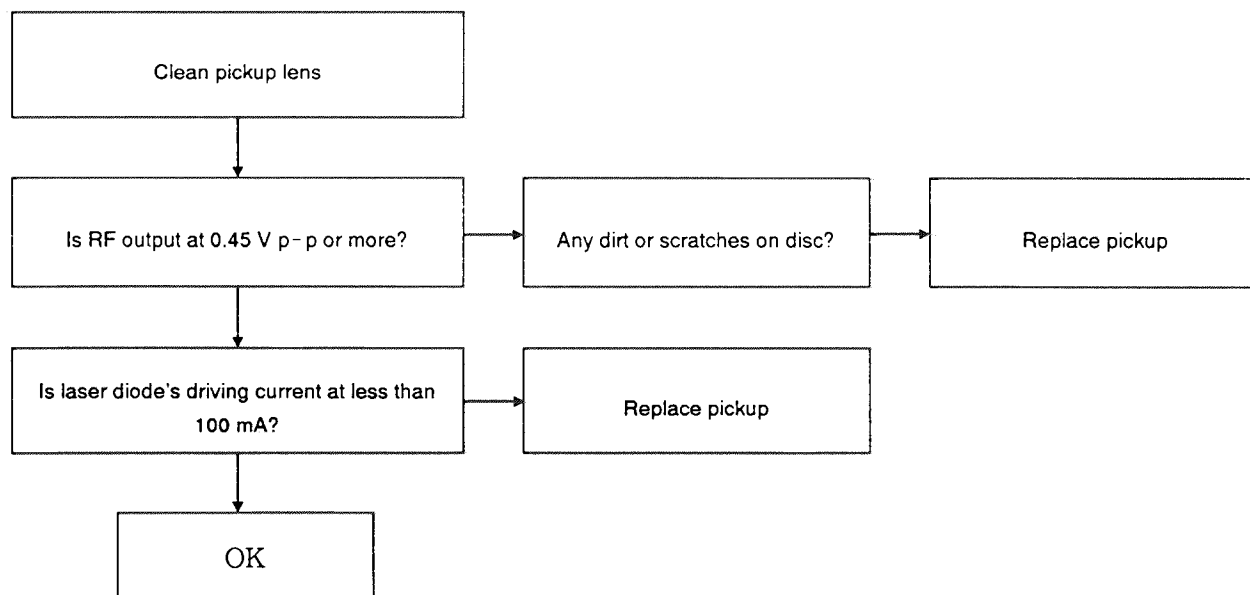
■ Pickup maintenance

(1) Checking the service life of laser diode

If a laser diode reaches the end of its service life, the following phenomena will show up. Similar symptoms may also appear when the pickup lens becomes too dirty. In this case, clean the lens.

- 1) The RF output (between IC601 ⑦ and ⑧ (GND)) lowers.
- 2) The driving current, necessary for the laser diode to emit lights, increases. (Calculate from the voltage level at both ends of the R614 at 10 Ω .)

◆ Following the flow chart shown below, check the service life.



◆ How to measure laser diode's driving current

After connecting a voltmeter at both ends of the R614(10 Ω), measure the voltage during playback. If the voltage level is at 1.0 V or more, the service life of the laser diode has expired.

Laser diode's driving current (A)

= Voltage level at both ends of R614 (V)/10 (Ω)

When voltage level is at 1.0 V:

$$1.0 \text{ V} / 10 \Omega = 0.1 \text{ A} = 100 \text{ mA}$$

Note:

The laser diode easily breaks down. Be sure to turn the power off before connecting a voltmeter.

◆ HOW TO OPERATE THE CD SELF - DIAGNOSIS FUNCTION

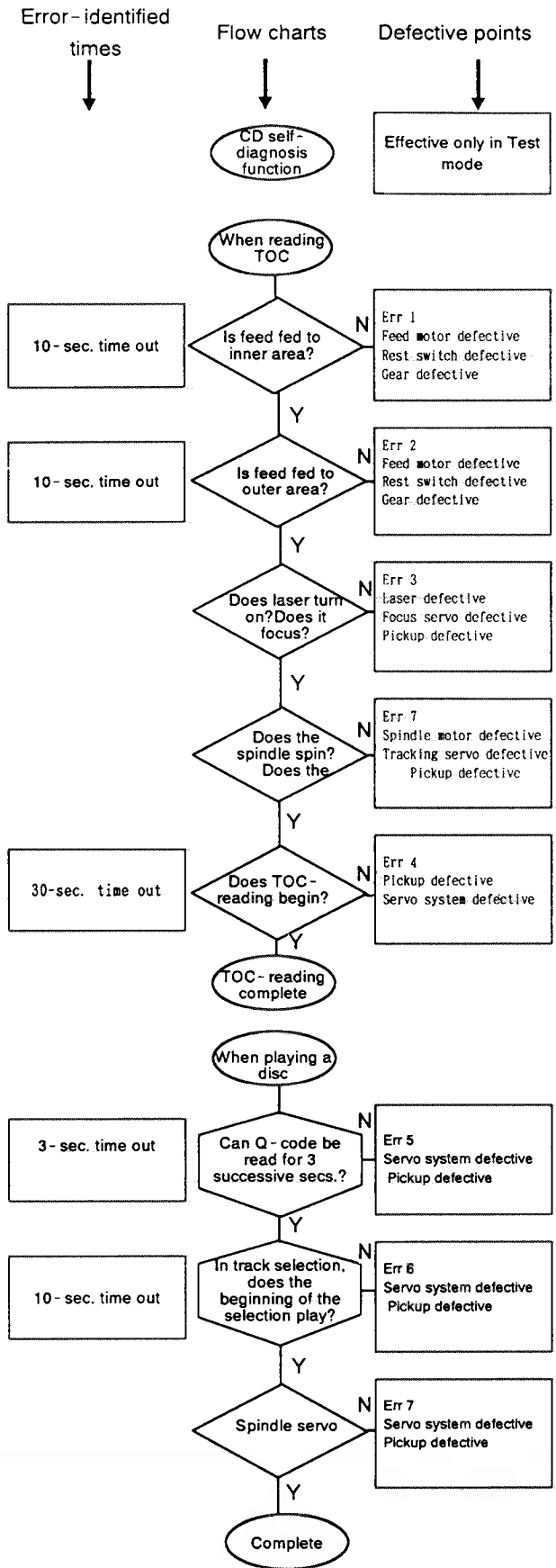
◆ The CD Self - diagnosis Function

If any malfunction occurs in the CD player, this system can be set to make an error code indication appear on the LCD to point out the defective parts. This efficiently helps service personnel find the causes of the malfunction.

1. Operation

- 1 Press the three **■/CLEAR**, **+10** and **POWER** buttons on the remote control to enter the Test mode. (Then the illuminating portions of the LCD all light up together. This indicates that the system has entered the Test mode.)
- 2 Play a CD. If the operation is defective in any way, an error code should appear on the LCD.
- 3 Identify the point of malfunction in accordance with the error code displayed.

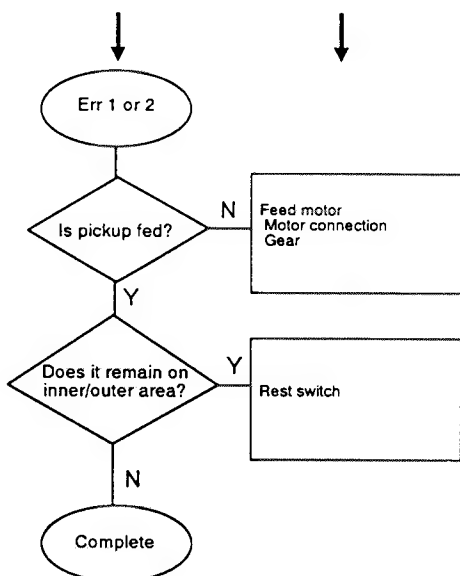
2. Error codes & defective points



Error - identified times
↓

Flow charts
↓

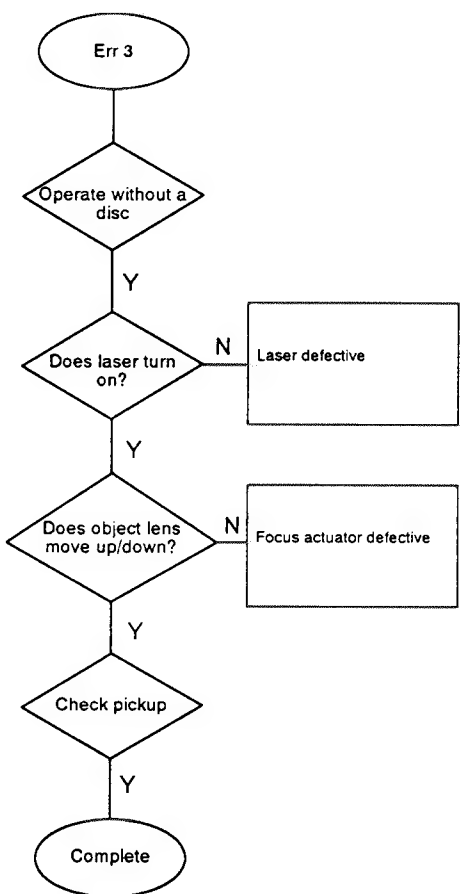
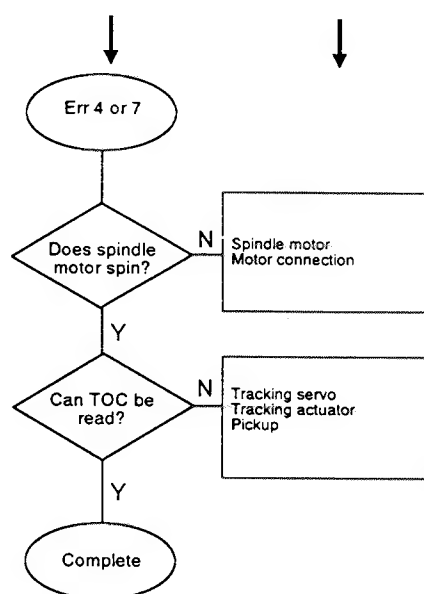
Defective points
↓



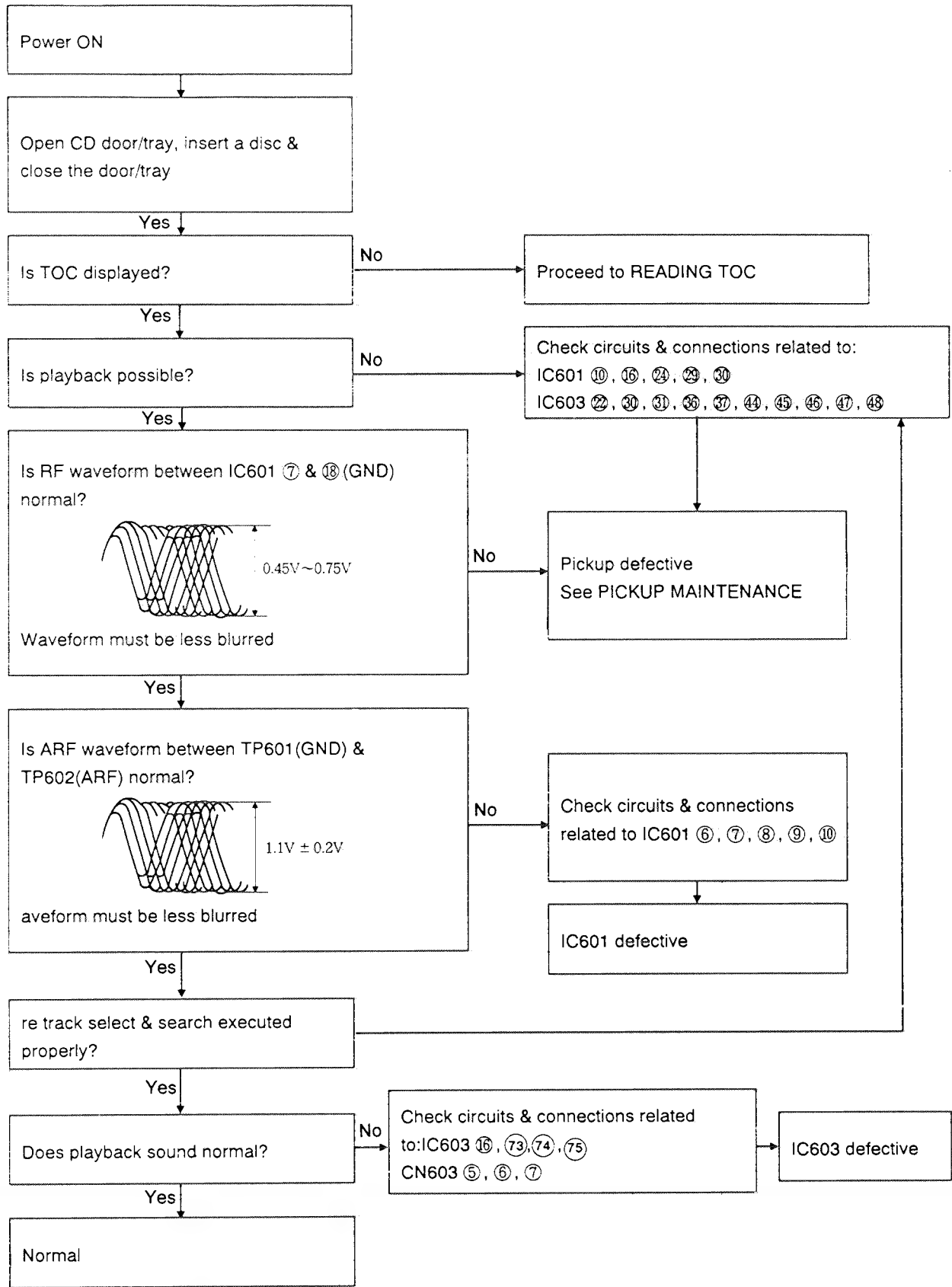
Error - identified times
↓

Flow charts
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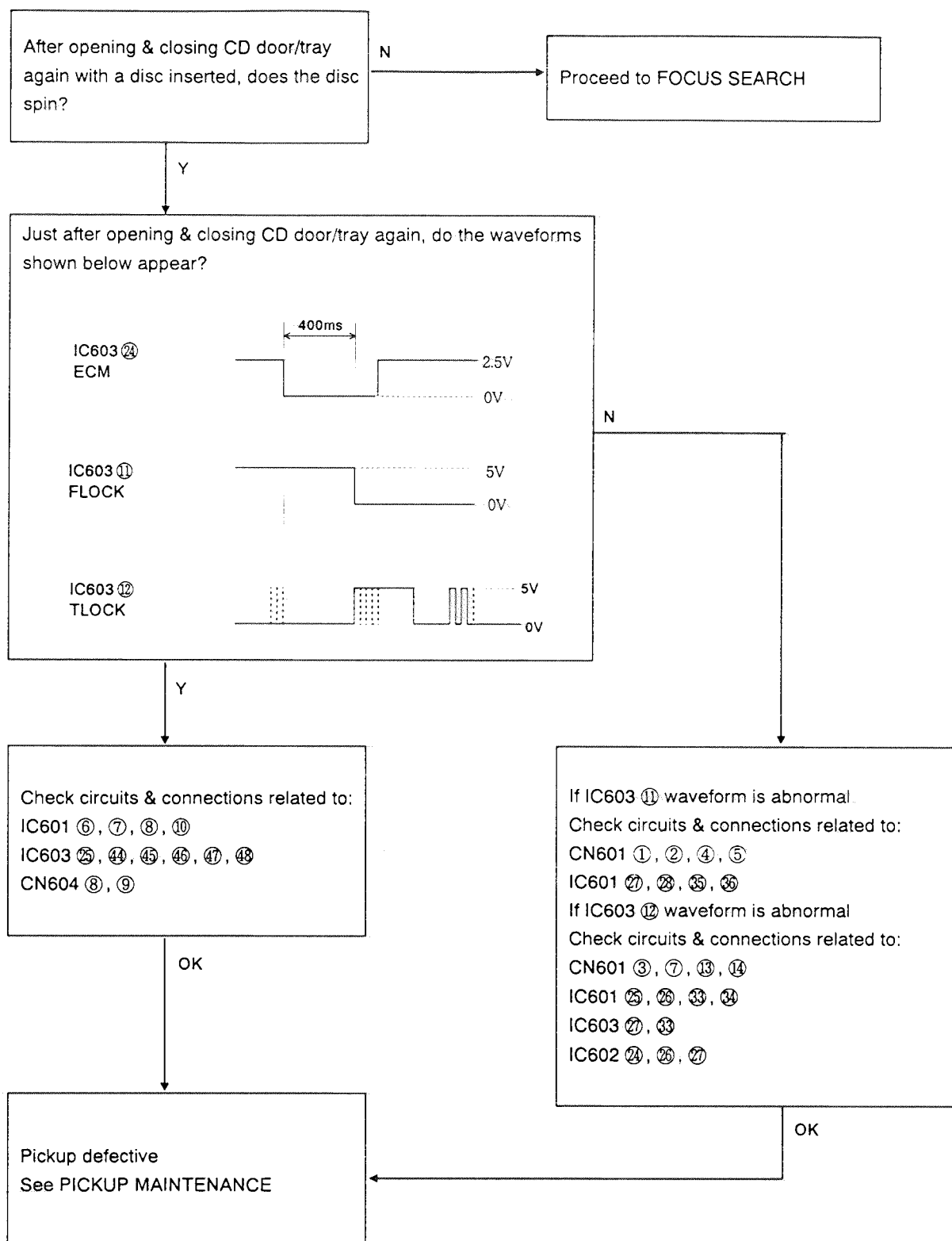
Defective points
↓



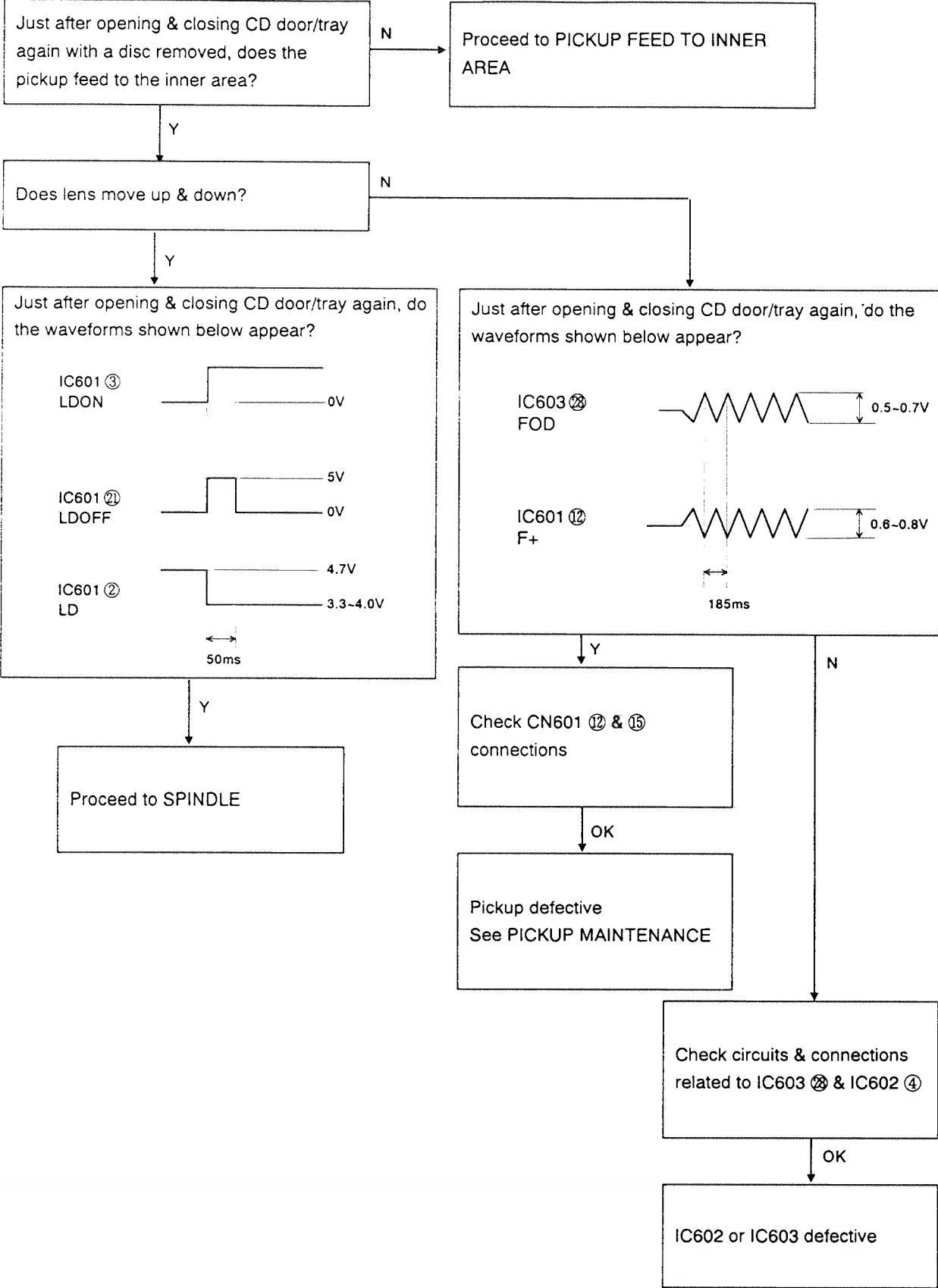
◆ General



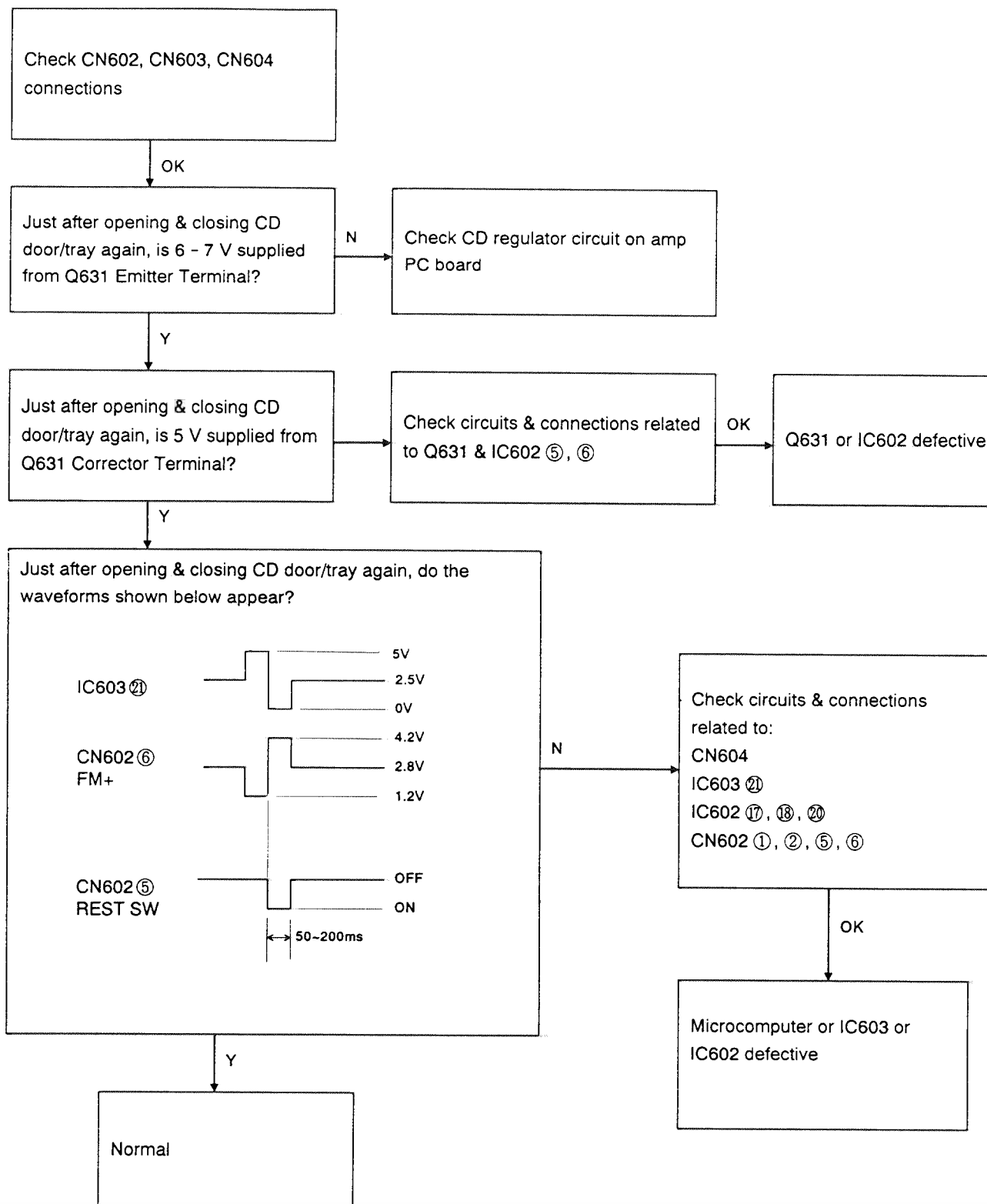
◆ Reading TOC



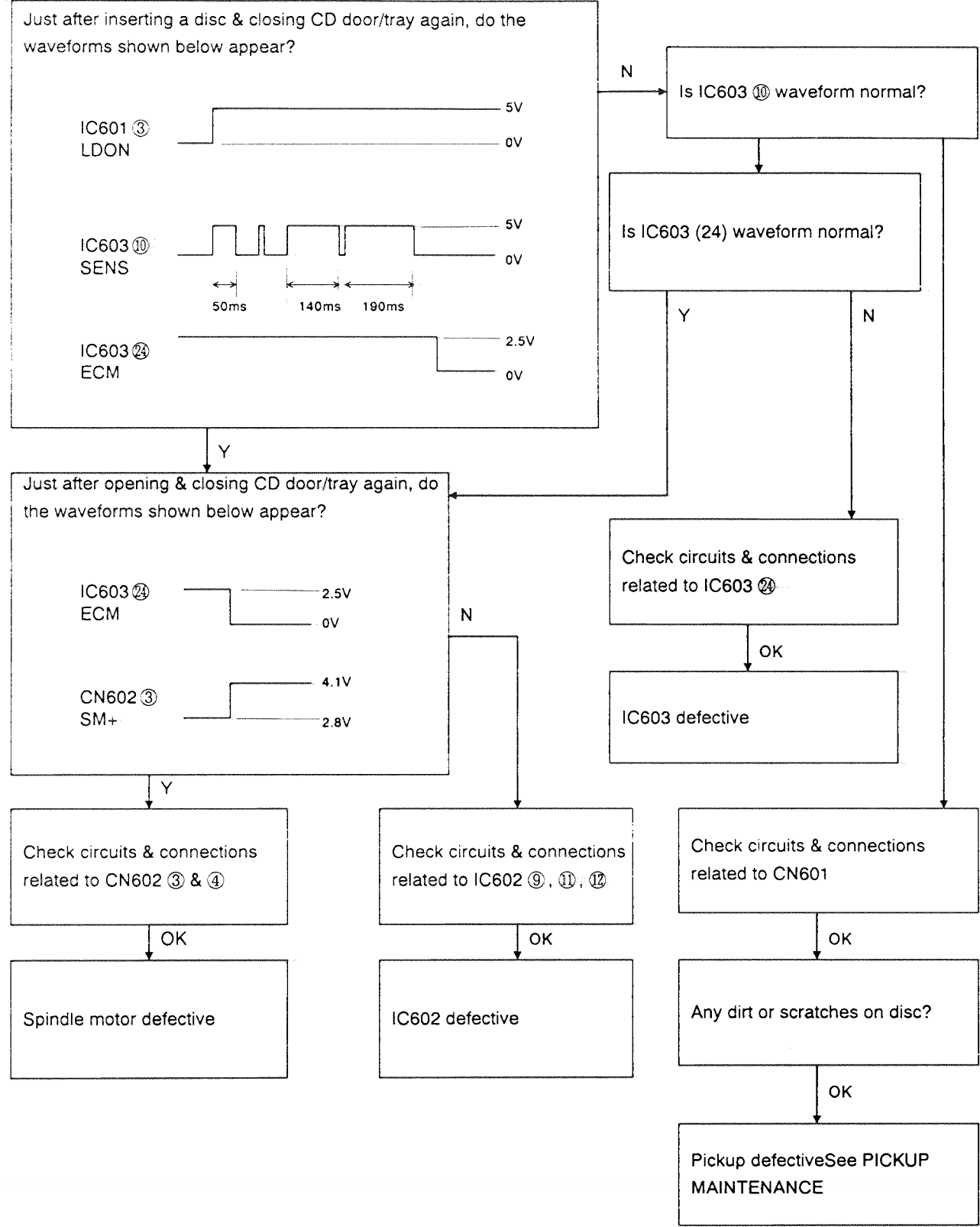
◆ Focus search



◆ Pickup feed to inner area



◆ Spindle



8.Main IC Block Diagram

■ Integrated circuit diagram

■ IC2 (LC72136) PLL

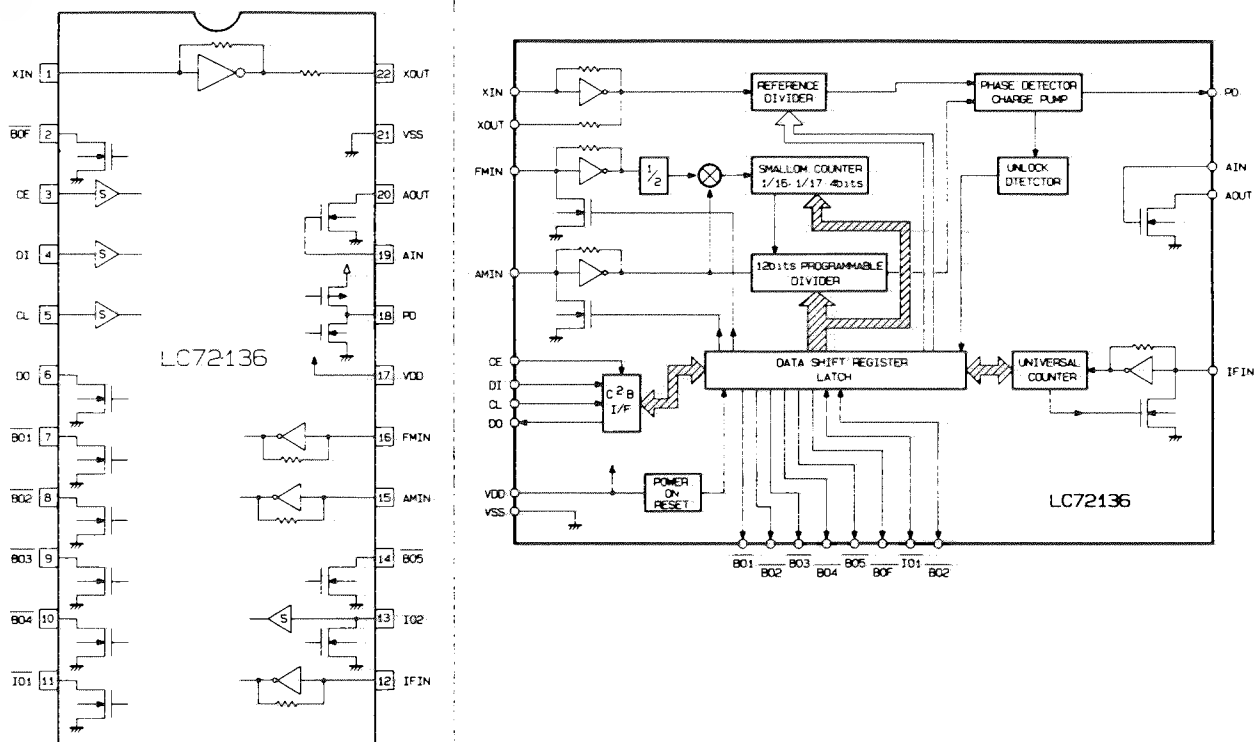


Fig. 8-1

■ IC1 (TA2057N) IF & MPX

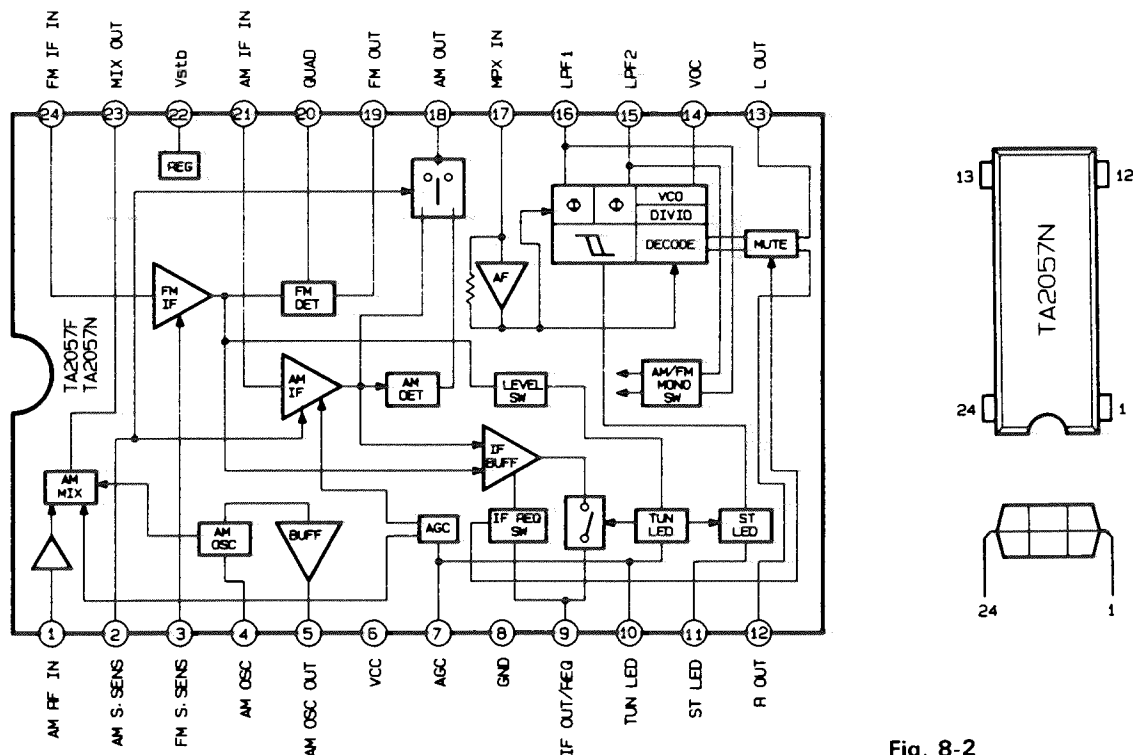
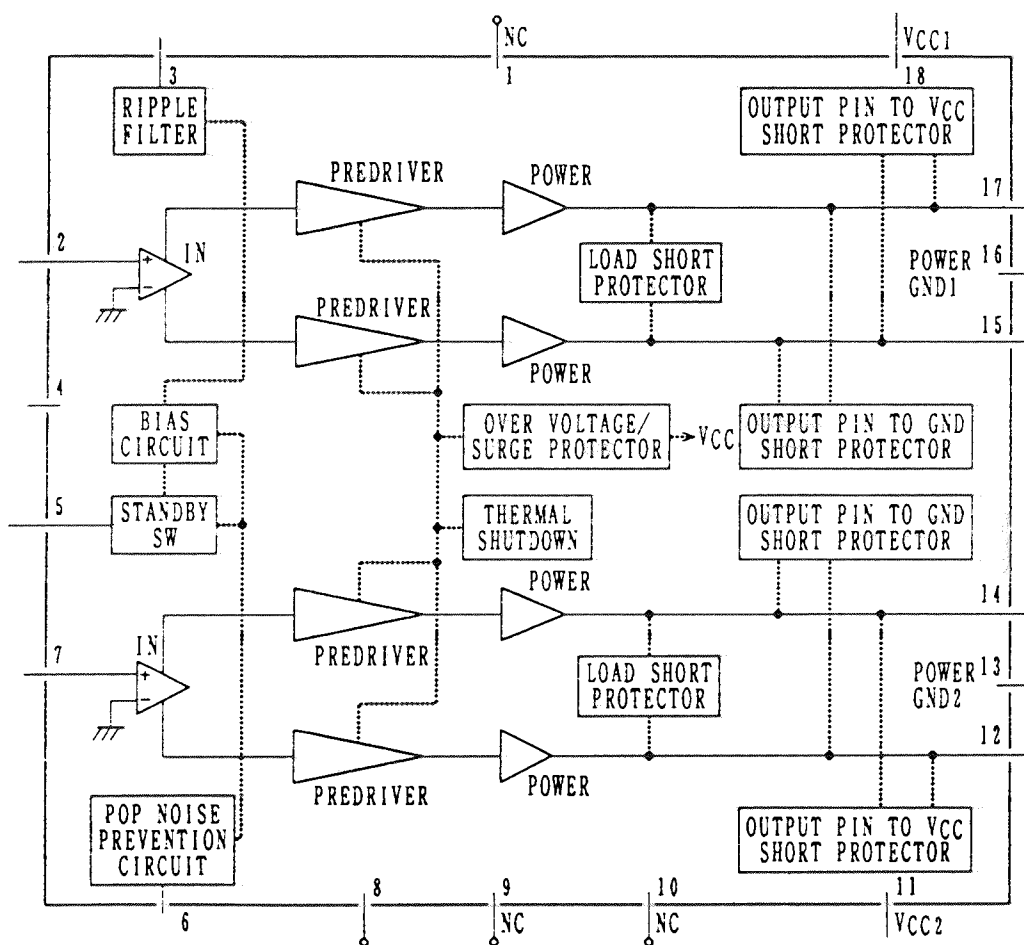


Fig. 8-2

■ IC31: LA4705NA (POWER AMPLIFIER)



■ IC701 : UPD78063GF Terminal's Function Table

Pin No.	Symbol	I/O	Function
1	SDATA	I/O	Serial data (TUNER PLL)
2	SCK	0	Serial clock (TUNER PLL)
3	SUBQ	I	CD Q cord data
4	NC	0	Non connection
5	SQCK	0	Sincro clock of CD Q cord data
6	IC		Connect to Vss
7	X2		Main system clock 4.19MHz
8	X1	I	Main system clock 4.19MHz
9	Vdd		Power source
10	XT1	I	Sub system clock 32.768kHz
11	XT2		Sub system clock 32.768kHz
12	RESET	I	Reset
13	REM	I	Remote control unit
14	RDS CLOCK	I	Sincro clock of RDS data
15	VOL A	I	Volume encorder A
16	BEAT 2	0	Main clock selecttor 2
17	BEAT 1	0	Main clock selecttor 1
18	+ BCTL	0	Switched 5V control (H = 5V off)
19	XRESET	0	CD LSI reset
20	MCLK	0	CD LSI comand clock
21	MDATA	0	CD LSI comand data
22	MLD	0	CD LSI comand load
23	MTO	0	CD door motor
24	MT1	0	CD door motor
25	DIMMER	0	Backlight brilliant (H = normal, L = dimmer)
26	F.AUX	0	Fuction AUX (L = by AUX)
27	AVss		AD convertor ground
28	SAFETY2	I	Detection 2 for avnormal power voltage
29	DOOR	I	Reset/open/close switch
30	SAFETY1	I	Detection 1 for avnormal power voltage
31	SAFETY0	I	Detection 0 for avnormal power voltage
32	KEY 1	I	Set key input 1
33	KEY 0	I	Set key input 0 (Included to Version select)
34	MTS	0	Door motor speed (L = Normal, H = Slow)
35	LO.MUTE	0	Line out mute
36	AVdd		Power source for AD convertor (Vdd = same)
37	AVref		Reference power voltage for AD convertor
38	BUP	I	Distinction of backup power source (H = Backup)
39	F.TUNER	0	Function Tuner
40	Vss		Ground

Pin No.	Symbol	I/O	Function
41	MPX	I	Detection of FM stereo (L = Stereo)
42	PERIOD	0	Stolove of Tuner PLL
43	VOL B	I	Volume encorder B
44	BASS	0	Bass control (PWM)
45	TRE	0	Treble control (PWM)
46	VOL	0	Volume control (PWM)
47	S.BASS	0	S.BASS ON/OFF (ON = L, OFF = H)
48	S.MUTE	0	System mute (mute = L)
49	P.OUT	0	Power on/off
50	F.CD	0	Function CD (CD = L)
51	COM 0	0	LCD Remote control unit terminal 0
52	COM 1	0	LCD Remote control unit terminal 1
53	COM 2	0	LCD Remote control unit terminal 2
54	COM 3	0	LCD Remote control unit terminal 3
55	BIAS		LCD bias power voltage
56	VLC 0		LCD bias power voltage
57	VLC 1		LCD bias power voltage
58	VLC 2		LCD bias power voltage
59	Vss		Ground
60	S0	0	LCD segment 0
61	S1	0	LCD segment 1
62	S2	0	LCD segment 2
63	S3	0	LCD segment 3
64	S4	0	LCD segment 4
65	S5	0	LCD segment 5
66	S6	0	LCD segment 6
67	S7	0	LCD segment 7
68	S8	0	LCD segment 8
69	S9	0	LCD segment 9
70	S10	0	LCD segment 10
71	S11	0	LCD segment 11
72	S12	0	LCD segment 12
73	S13	0	LCD segment 13
74	S14	0	LCD segment 14
75	S15	0	LCD segment 15
76	S16	0	LCD segment 16
77	S17	0	LCD segment 17
78	S18	0	LCD segment 18
79	S19	0	LCD segment 19
80	S20	0	LCD segment 20

[illegible]

9.Block Diagram

■ UX-2000GD

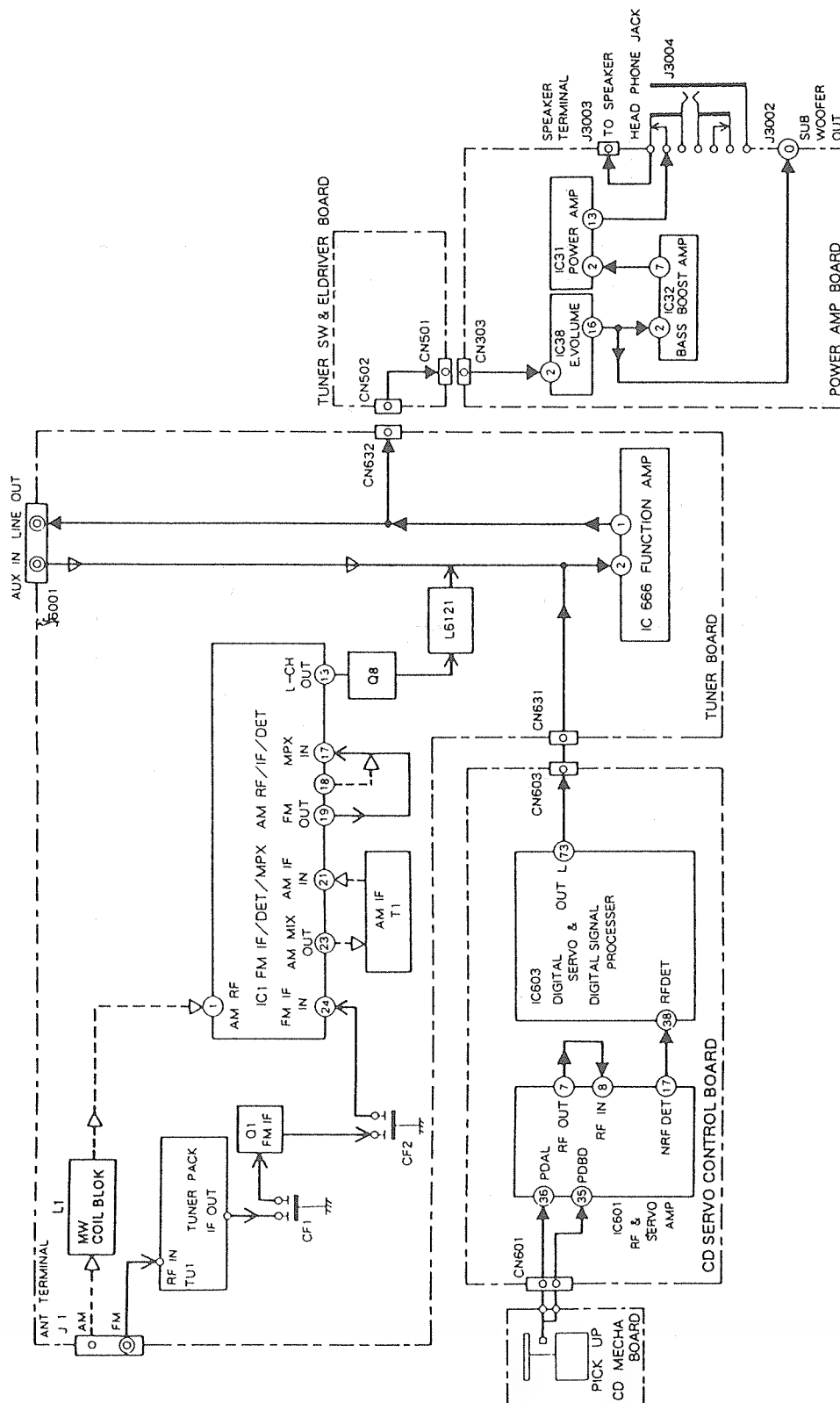


Fig.9-1

10. Wiring Connections

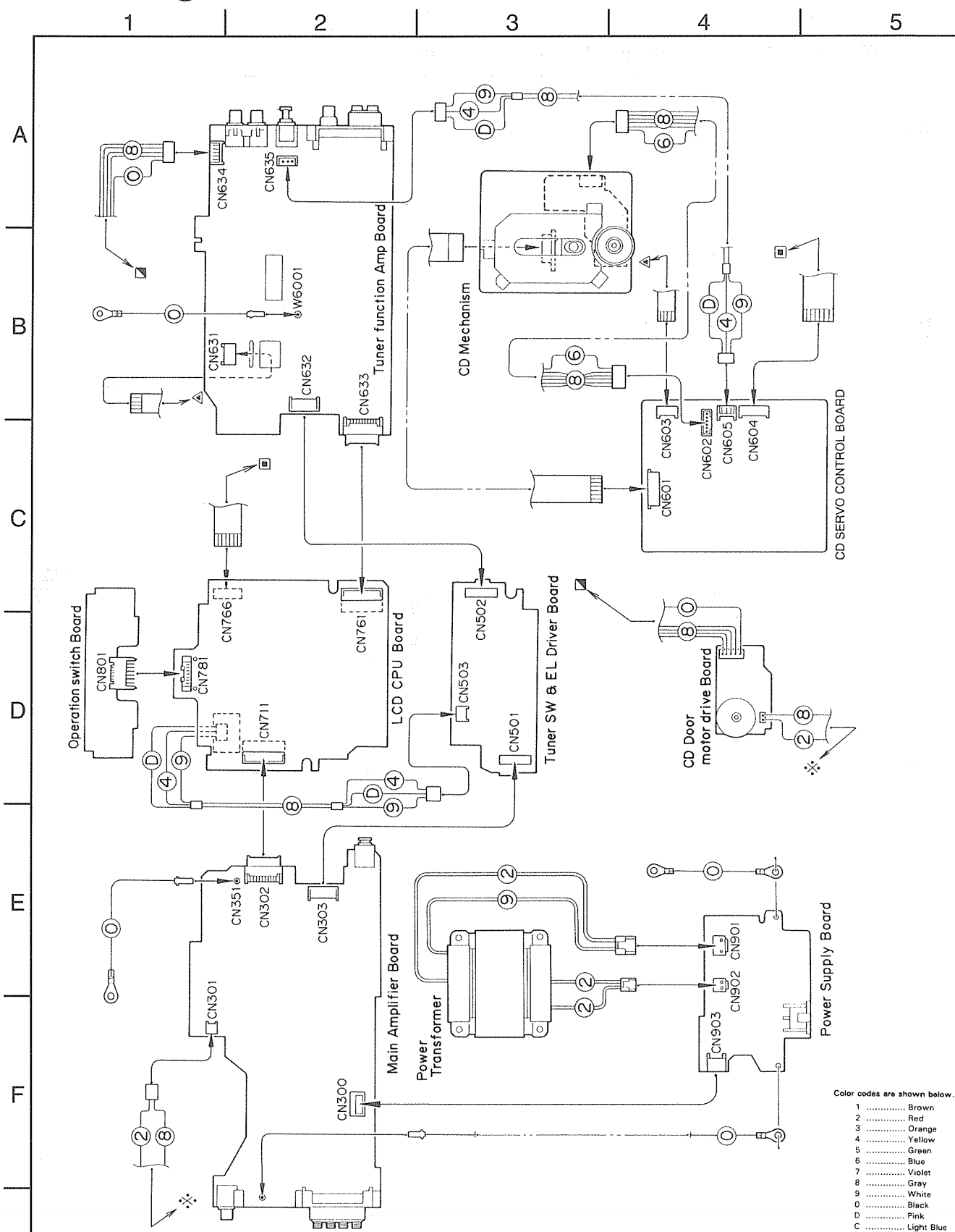
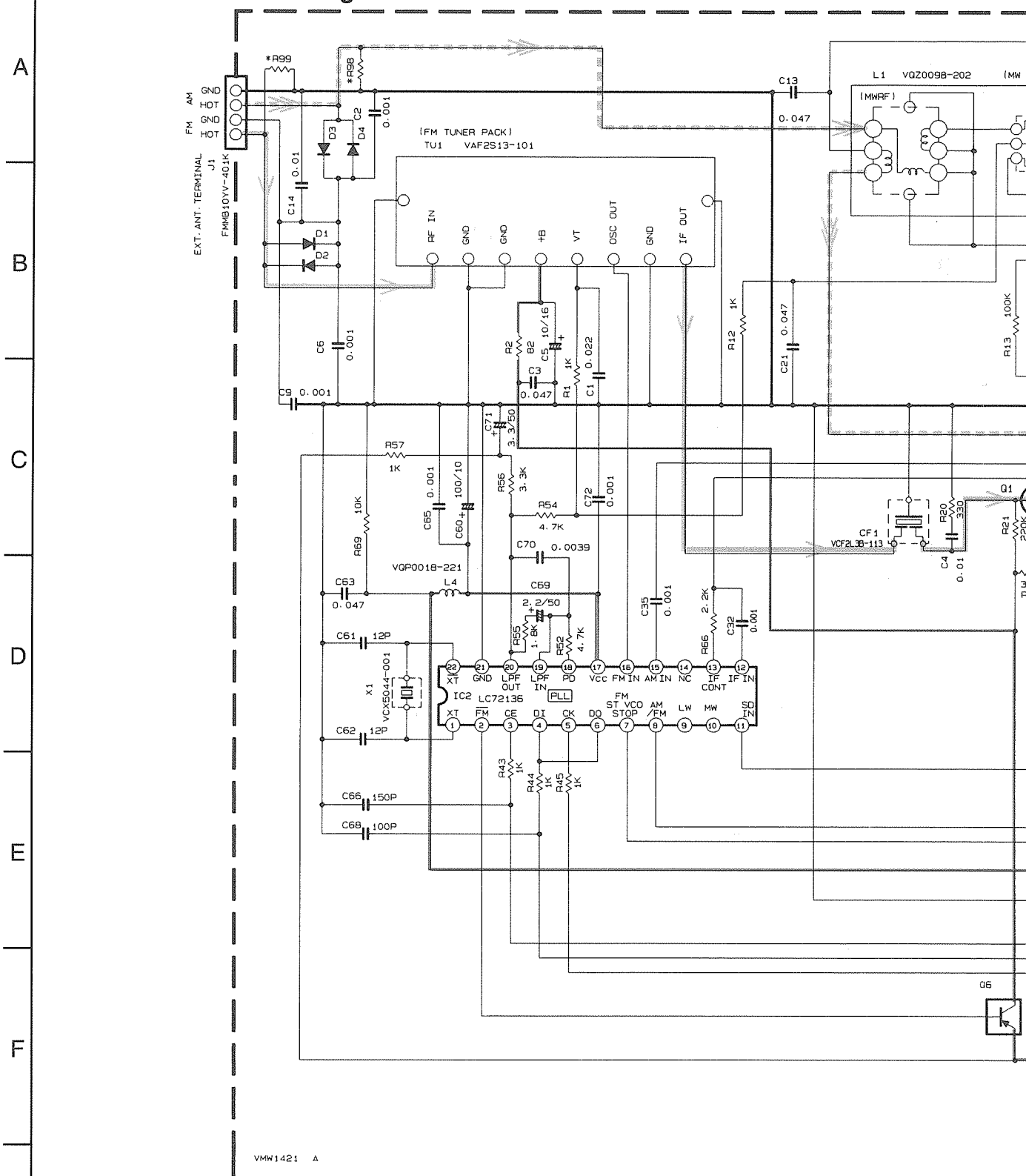


Fig.10-1

11. Standard Schematic Diagrams

■ Tuner Circuit : Drawing No.VDH9291-006TW



	CONDITION	PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC1	FM NO SIGNAL		2.0	0.5	0	2.0	5.2	5.2	0	0	0.3	5.2	5.2	1.1	1.1	4.6	3.9	3.9	1.4	0	1.3	1.1	2.0	2.0	5.2	2.0
	FM 60dB STEREO		2.0	0.5	0	2.0	5.2	5.2	1.1	0	0.3	0	0	1.1	1.1	4.5	4.1	3.9	1.4	0	1.4	1.1	2.0	2.0	5.2	2.0
	AM NO SIGNAL		2.0	0.5	0	2.0	5.0	5.2	0	0	0.3	5.2	5.2	1.1	1.1	4.8	0.1	0	1.4	1.4	1.5	1.6	2.0	2.0	5.2	2.0
IC2	FM NO SIGNAL		2.4	0	0	5.1	4.9	5.1	3.9	3.9	0	0	5.2	0	0	0	0	2.6	5.2	1.0	1.0	3.7	0	2.7		

Note : VDH9291006TW

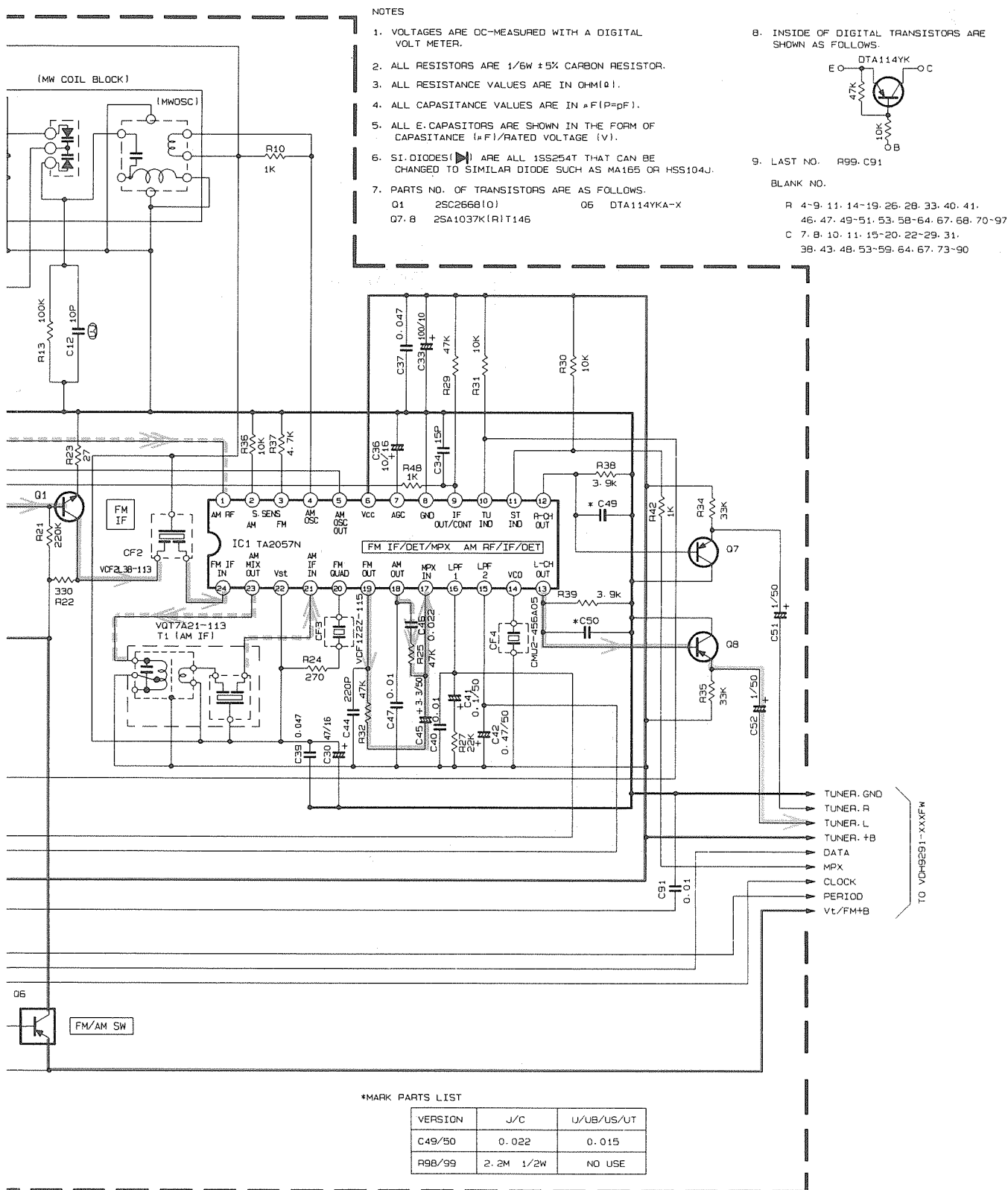
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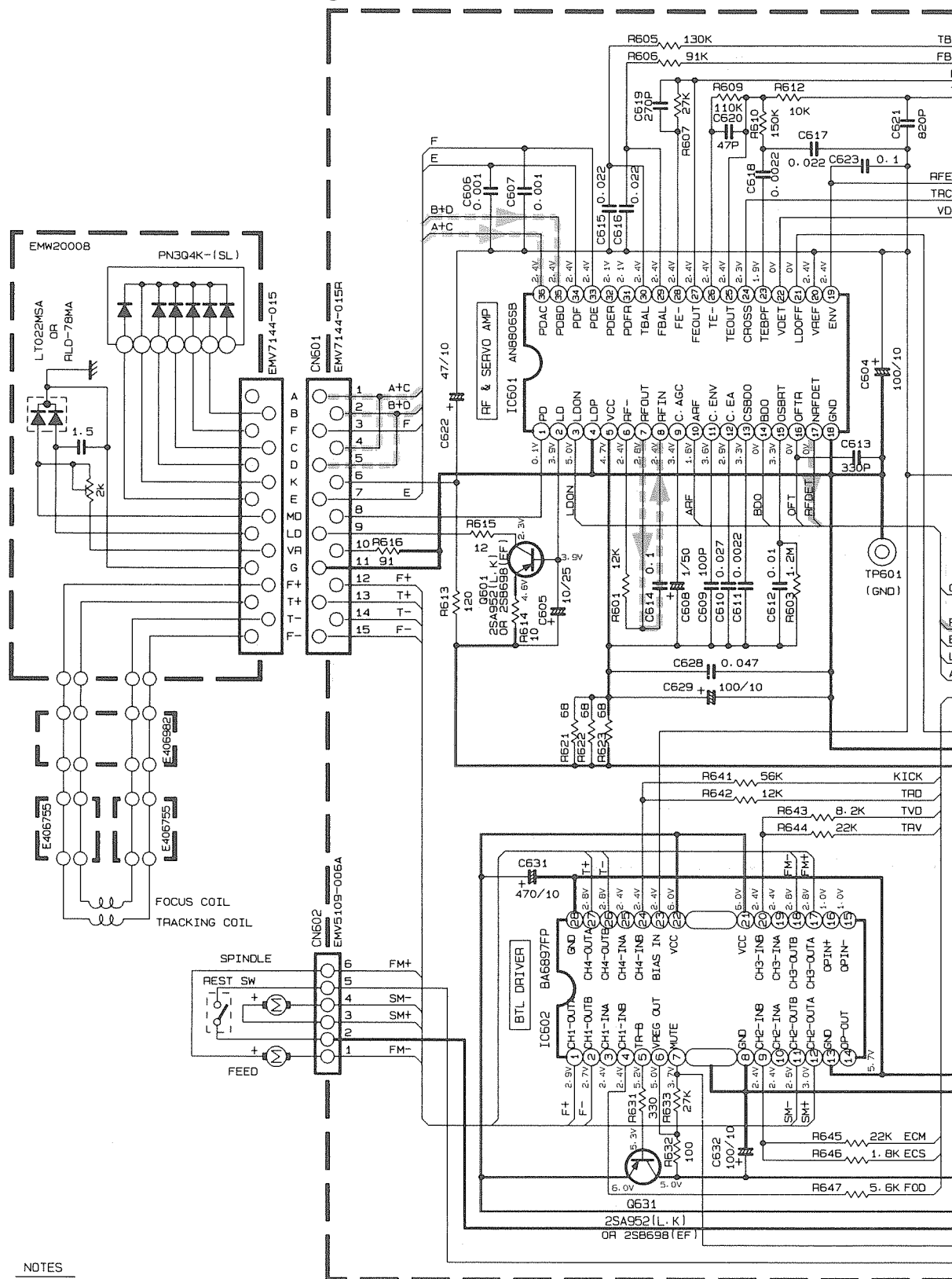


Tr. NO.	Q1			Q5			Q7			Q8		
	E	C	B	E	C	B	E	C	B	E	C	B
FM 75.0MHz NO SIGNAL	0	7.5	0.7	8.8	8.7	0	1.6	0	1.1	1.6	0	1.1
AM 531kHz NO SIGNAL	0	0	0	8.8	0	8.7	1.6	0	1.1	1.6	0	1.1

Fig.11-1

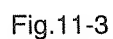
FM Radio signal
AM Radio signal
+B Line

CD Servo Control Circuit : Drawing No.VDH1010-001CW

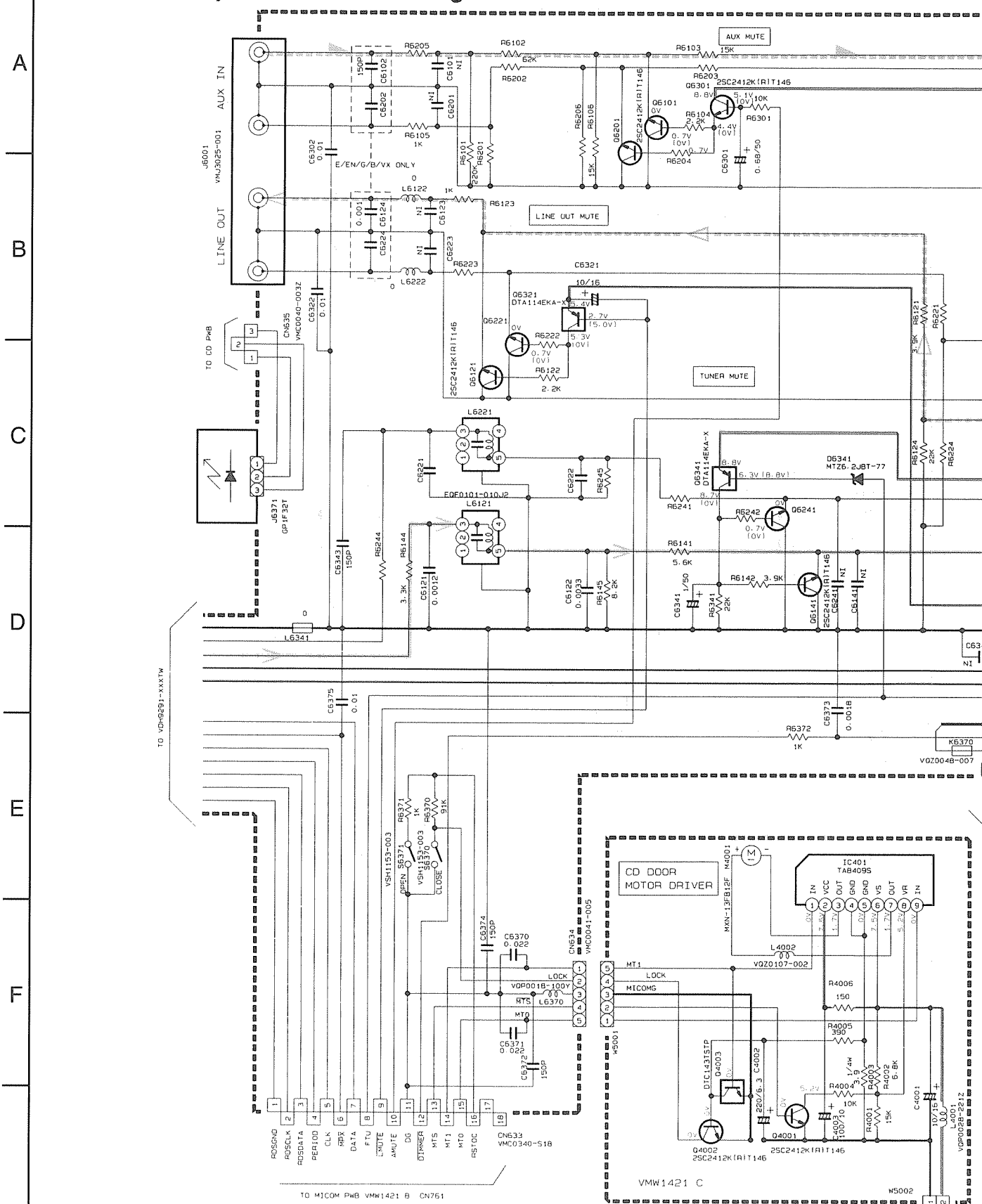


NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
ALL RESISTANCE VALUES ARE IN OHM (Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN #F (P=PF).
ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (#F/RATED VOLTAGE (V)).

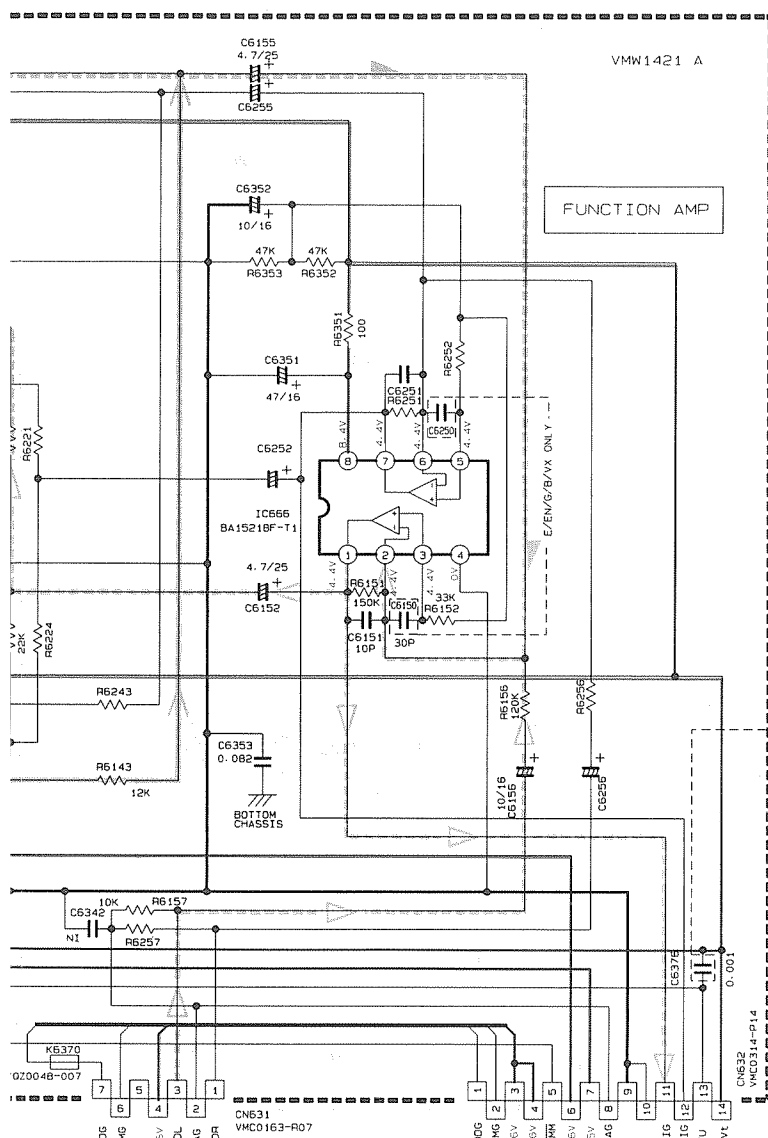


■ Function Amplifier Circuit : Drawing No.VDH9291-001FW



Note : VDH9291001FW

Fig.11-4



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION --- GO STOP MODE
INSIDE BRACKET VALUES ARE OTHER FUNCTIONS
(I) IS INVERT MODE
2. UNLESS OTHERWISE SPECIFIED.
RESISTORS ARE 1/8 15% CARBON RESISTOR OR 1/10W 15% MG RESISTOR
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
ALL CAPACITANCE VALUES ARE IN *P(F)=PF.
ALL INDUCTANCE VALUES ARE IN *H(H)=MH.
ALL E CAPACITORS ARE SHOWN IN THE FORM
OF CAPACITANCE *P(F)/RATED VOLTAGE (V).
ALL DIODES ARE 1S252AT-77 OR HSS104TV
NI MEANS NO INSERT

(FR) FUSEBLE RESISTOR

OTA114EKA-X

DTC143TSTP

4.7K

OPEN

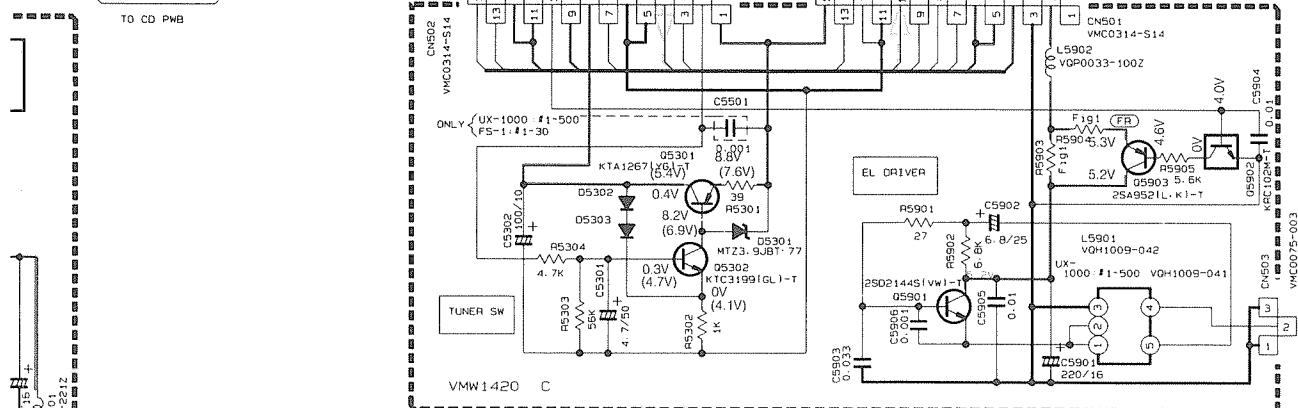
- EXCEPT { UX-1000 : #1-500
FS-1 : #1-30

Fig1

	UX-1000 #1-500
R5903	270 0
R5904	47 0 1/4W [08Z0077-470X]

	UX-1000/UX-1500R	FS-1/UX2000 /UX-2000R
R5903	330 Ω	270 Ω
R5904	68 Ω 1/4W (0R20077-680X)	47 Ω 1/4W (0R20077-470X)

TO MAIN PWB.
VMW1420 A CN303



CD Analogue Signal

FM Radio Signal

AUX IN Signal VDH9291-001FW

+ B line

Dom/E/EN/G/VX/U/US/UB/UT/J/C

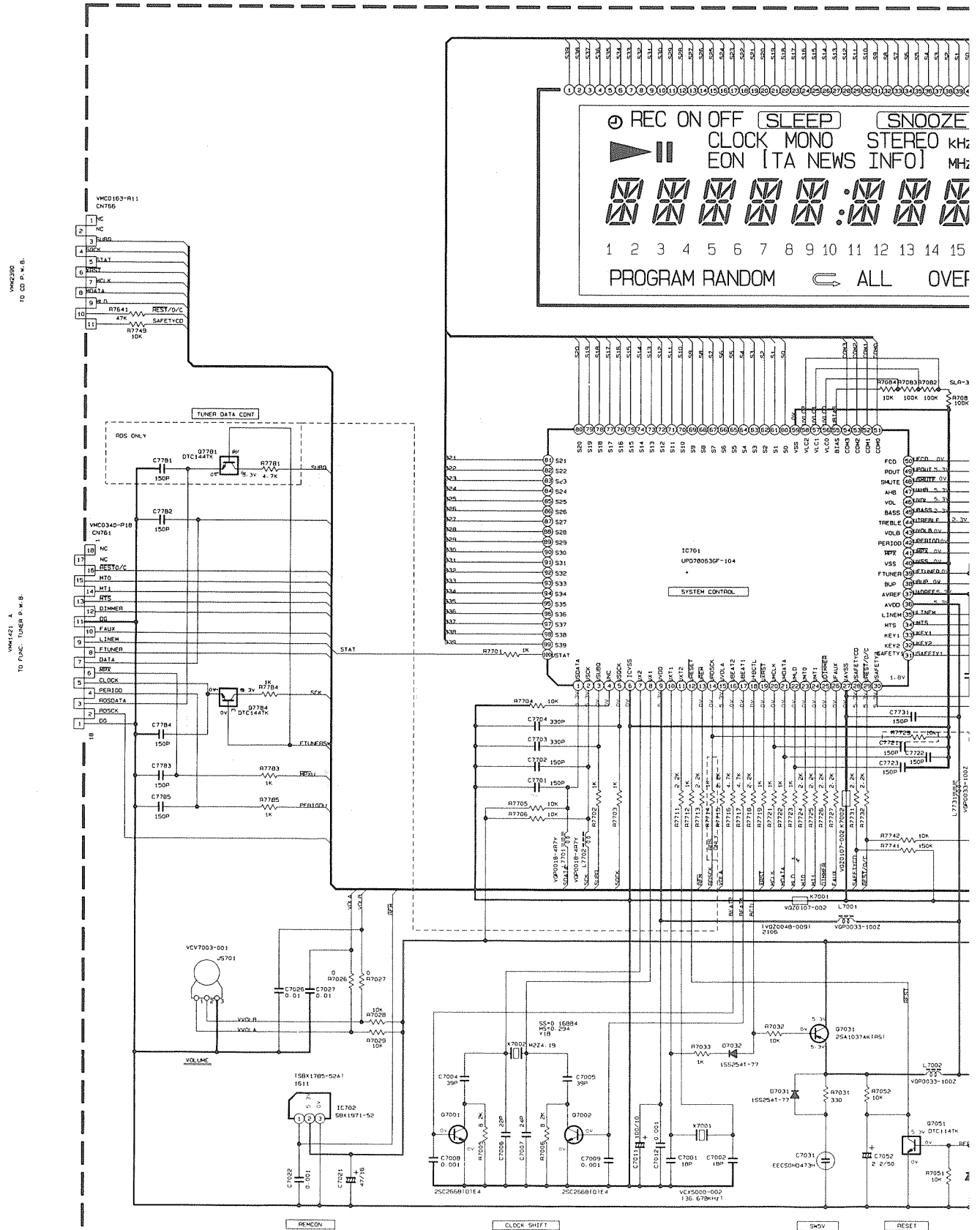
UX-1000. FS-1

UX-2000, FS-1000

UX-2000R, FS-2000

UX-1500R

LCD&System CPU Circuit : Drawing No.VDH9291-001SV



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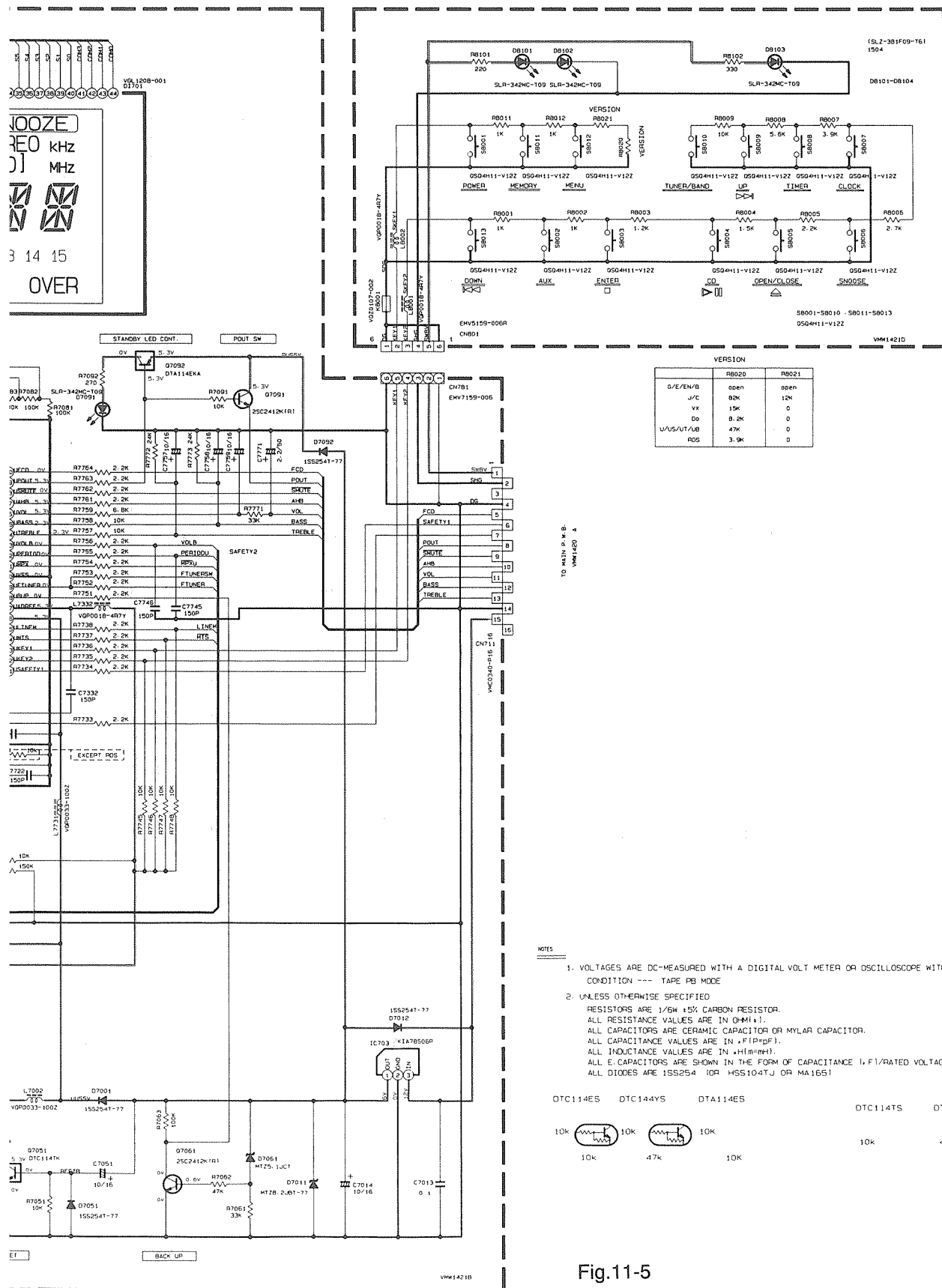
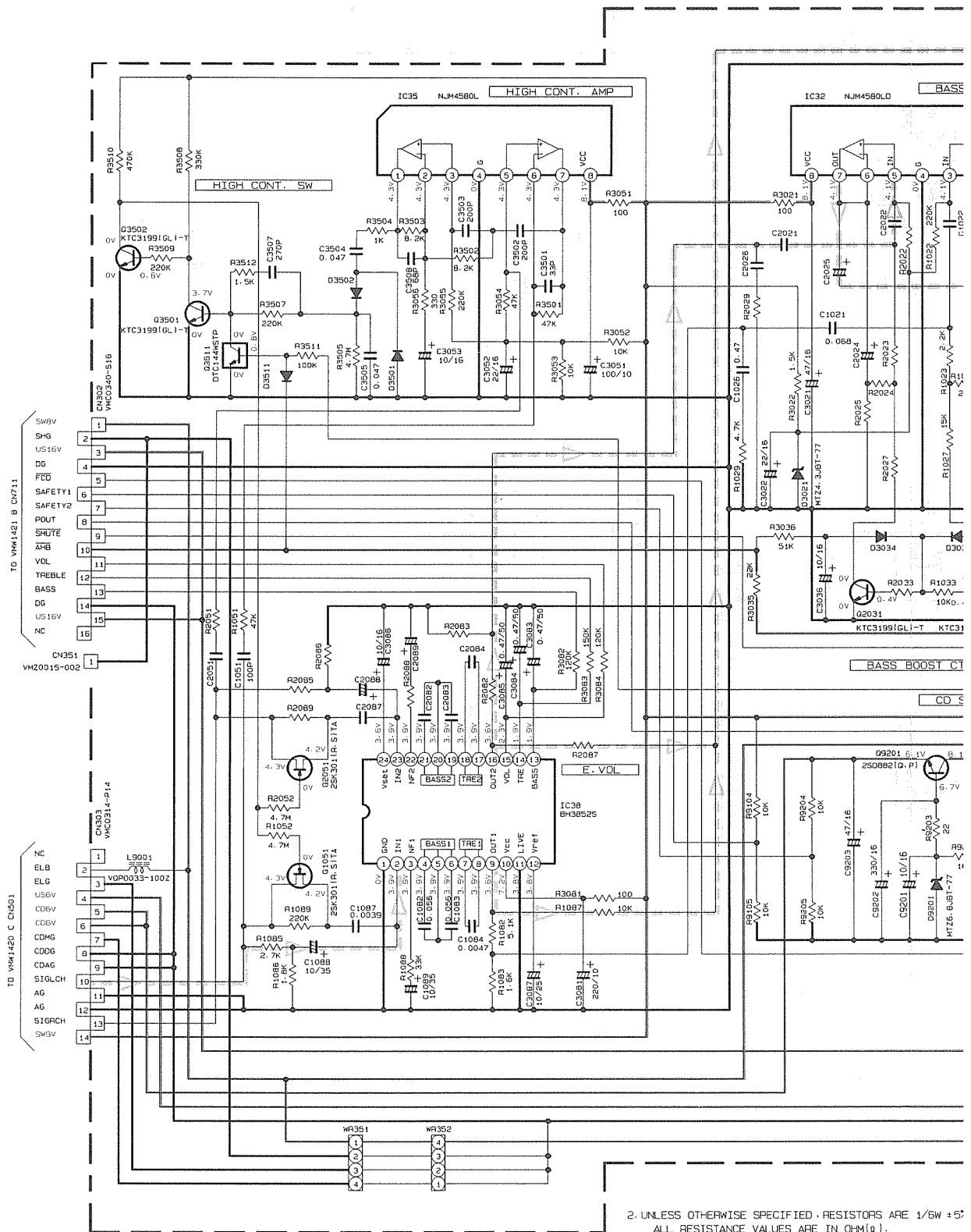


Fig.11-5

+B Line

■ Power Supply & Power Amplifier Circuit : Drawing No. VDH9291-023AW



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER
OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
CONDITION --- FUNC. CD STOP MODE

2. UNLESS OTHERWISE SPECIFIED, RESISTORS ARE 1/5W +5%
ALL RESISTANCE VALUES ARE IN OHM(Ω).
ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR C.
ALL CAPACITANCE VALUES ARE IN μF(P=pF).
ALL INDUCTANCE VALUES ARE IN μH(m=mH).
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPAC
ALL DIODES ARE HSS104TJ OR 1SS254T-77

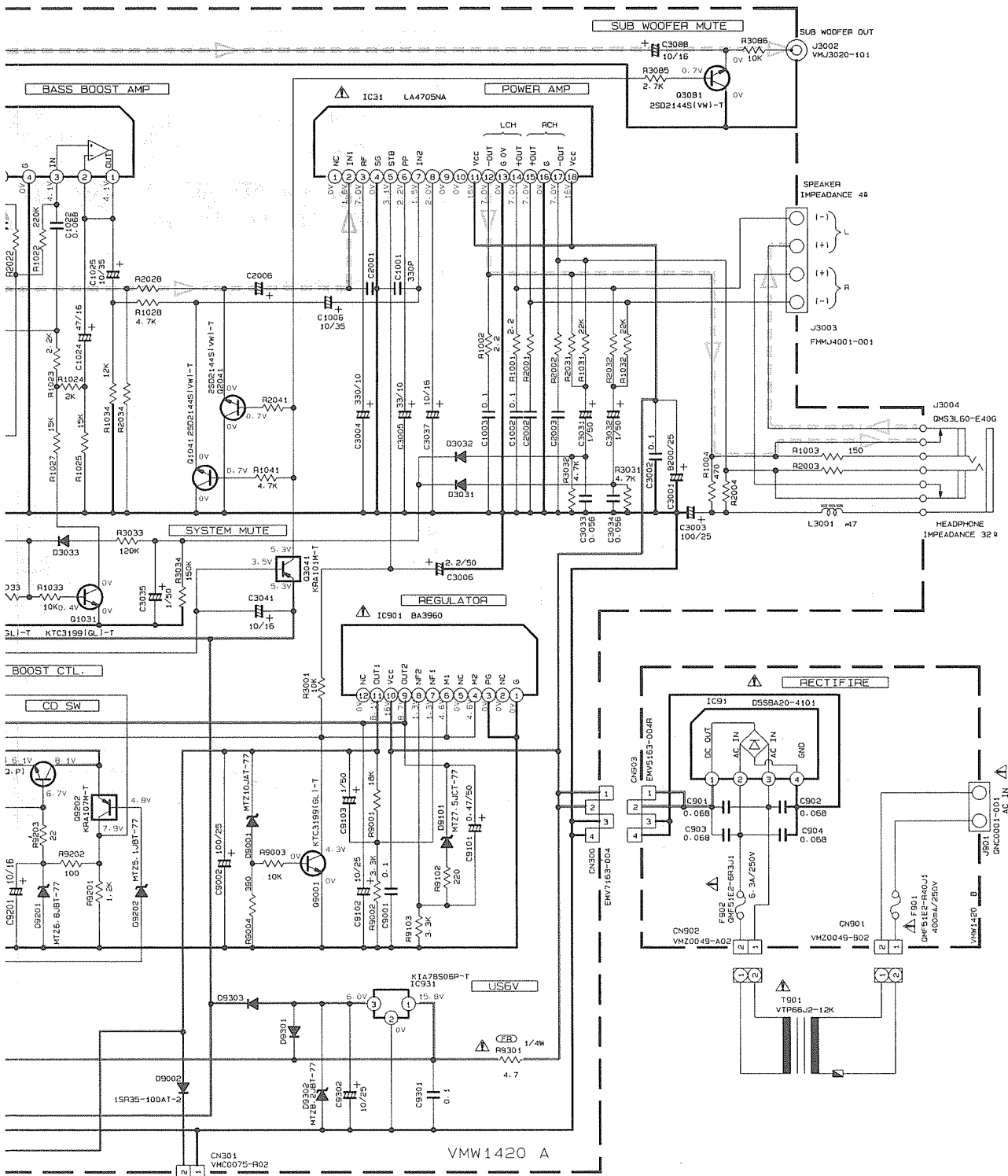
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TO VMW1421 C W5002
 1/5W ±5% CARBON RESISTOR.

3R MYLAR CAPACITOR.

1 OF CAPACITANCE (μF)/RATED VOLTAGE (V).

-77

CEB FUSEBLE RESISTOR



CD Analogue signal

+B Line

12.Location of P.C.Board Parts

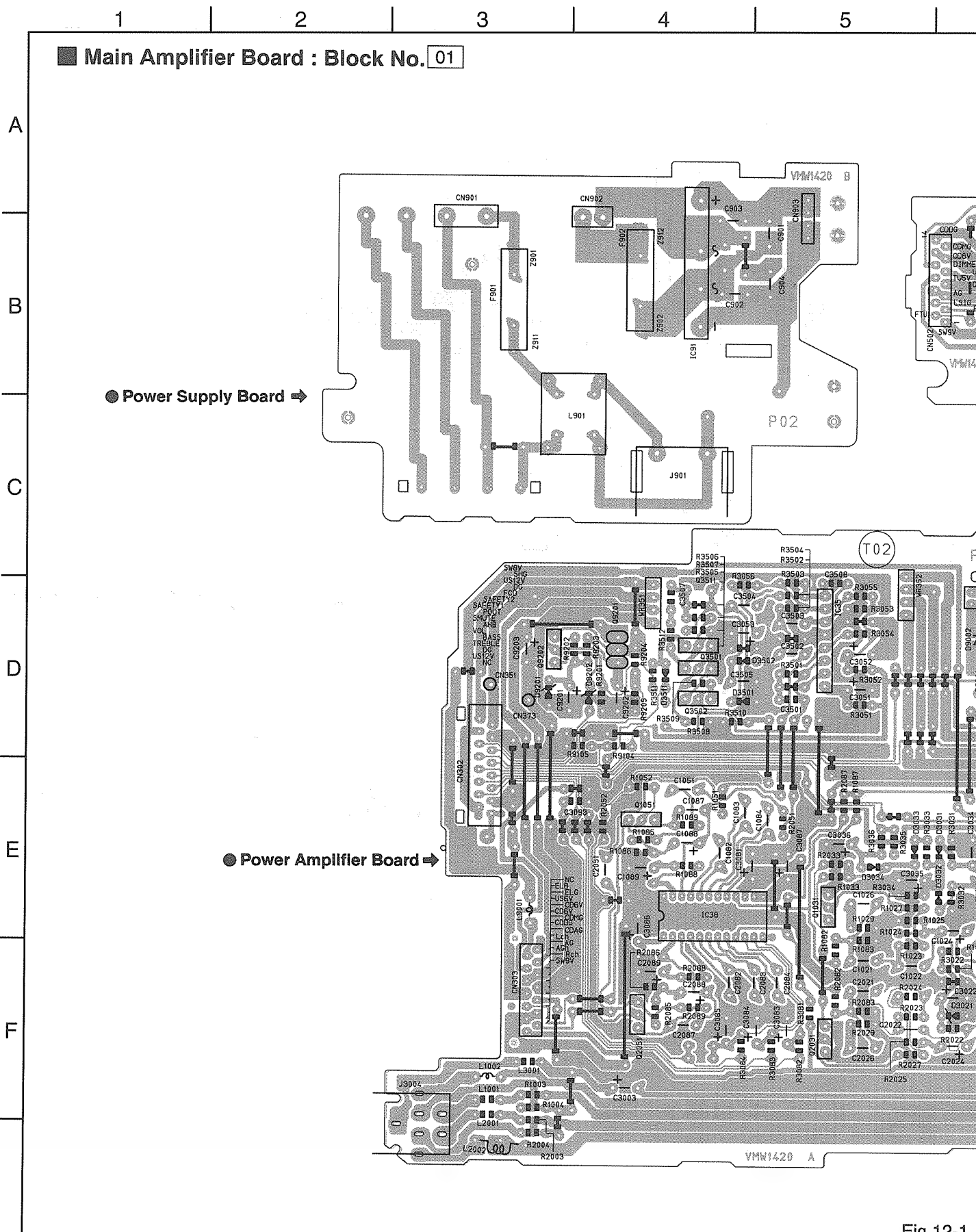
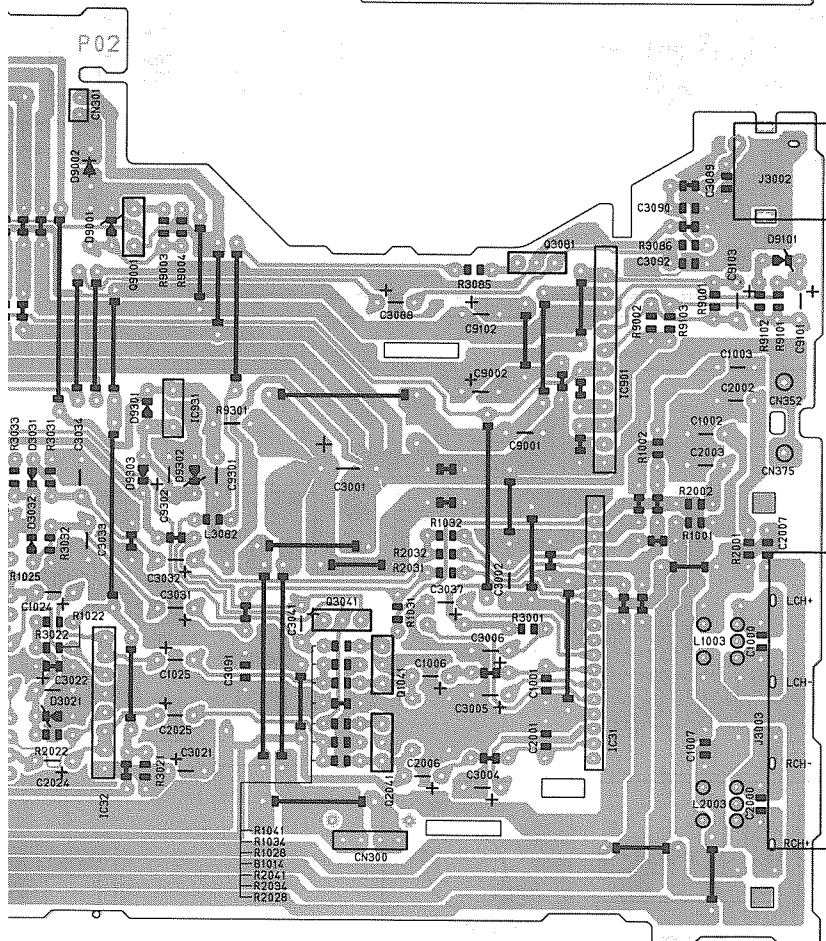


Fig.12-1



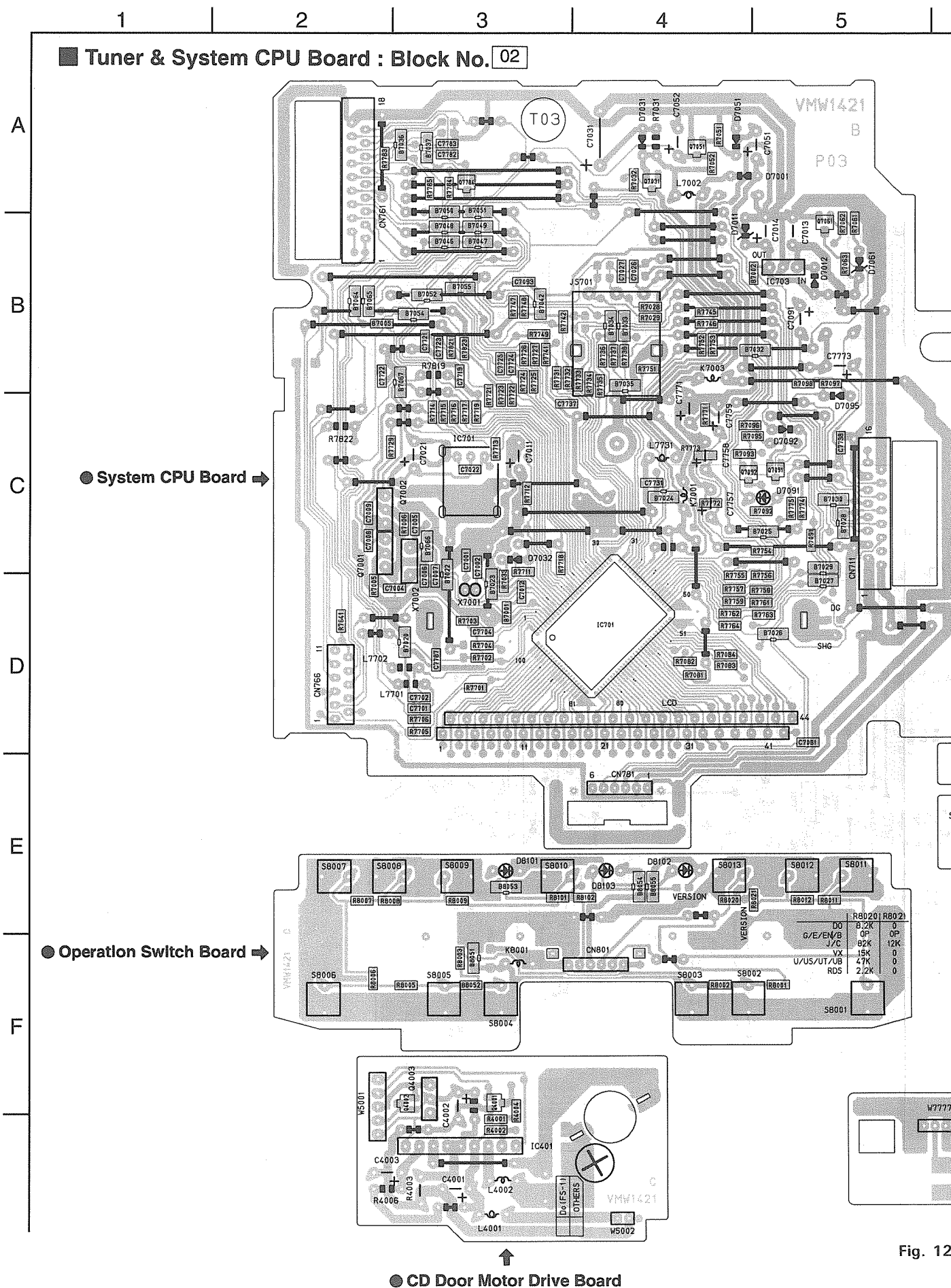


Fig. 12-

Fig. 12-3

CD Servo Control Board : Block No. 03

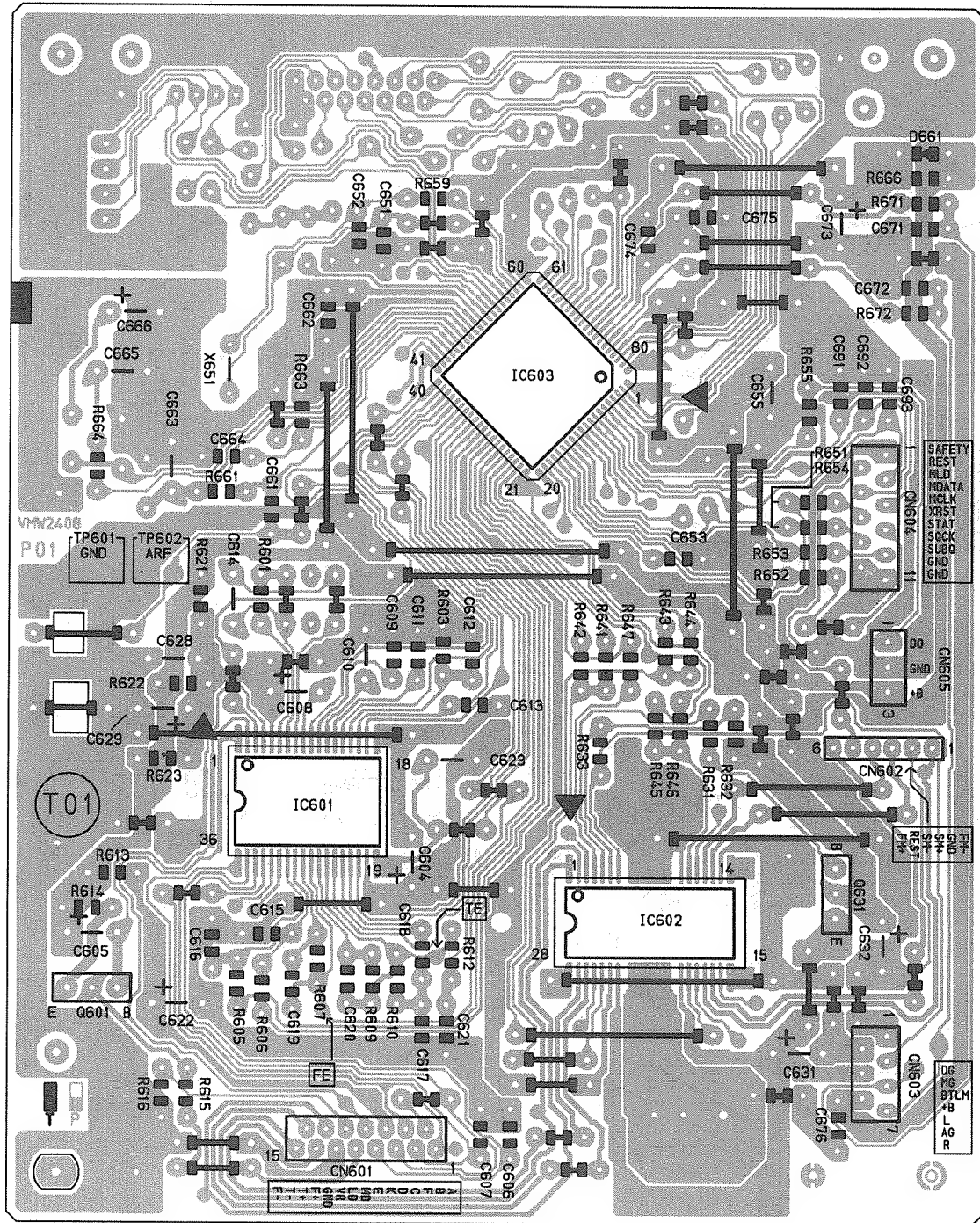


Fig.12-5

6 7 8 9 10

13. Analytic Drawing and Parts List

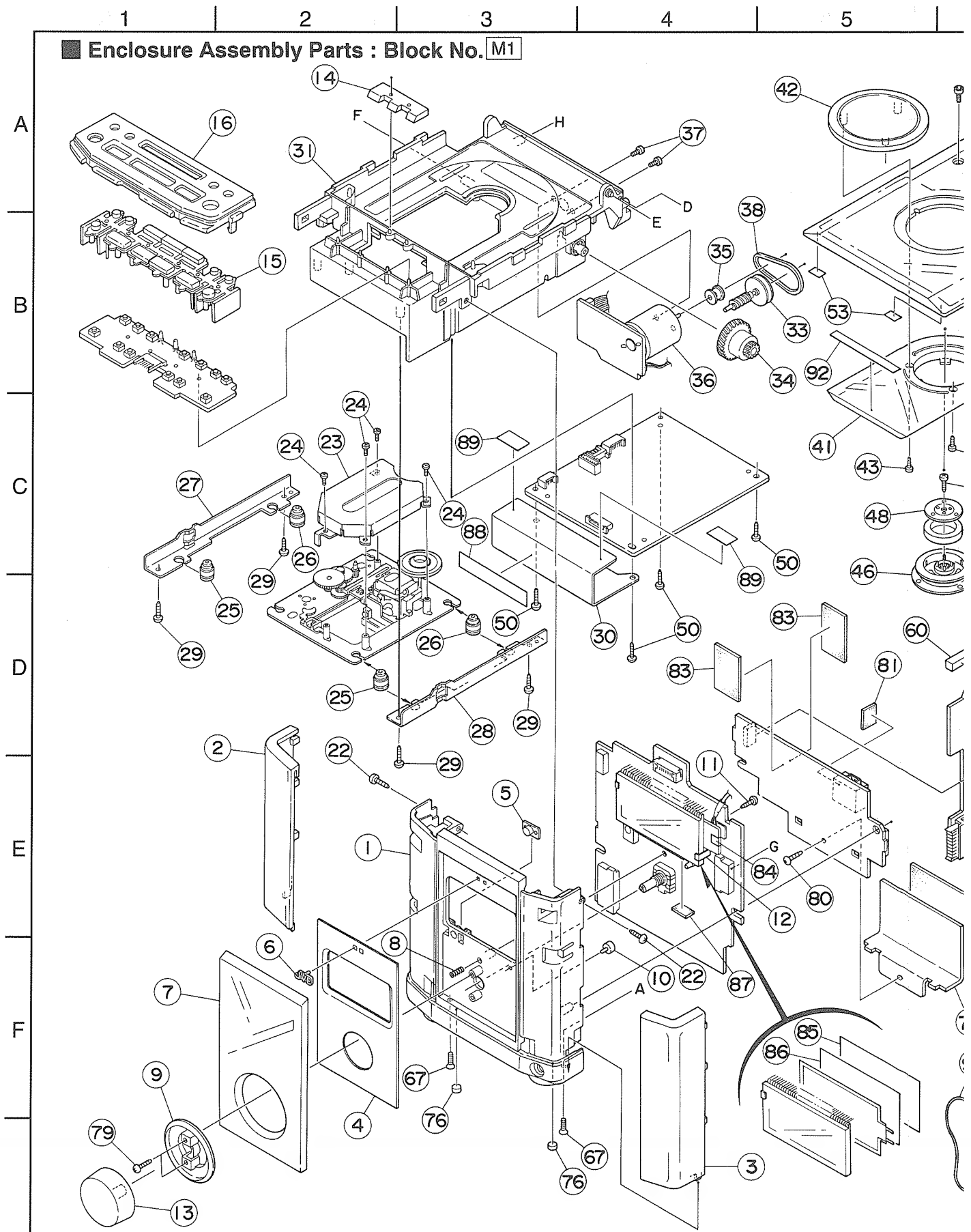


Fig.13-1

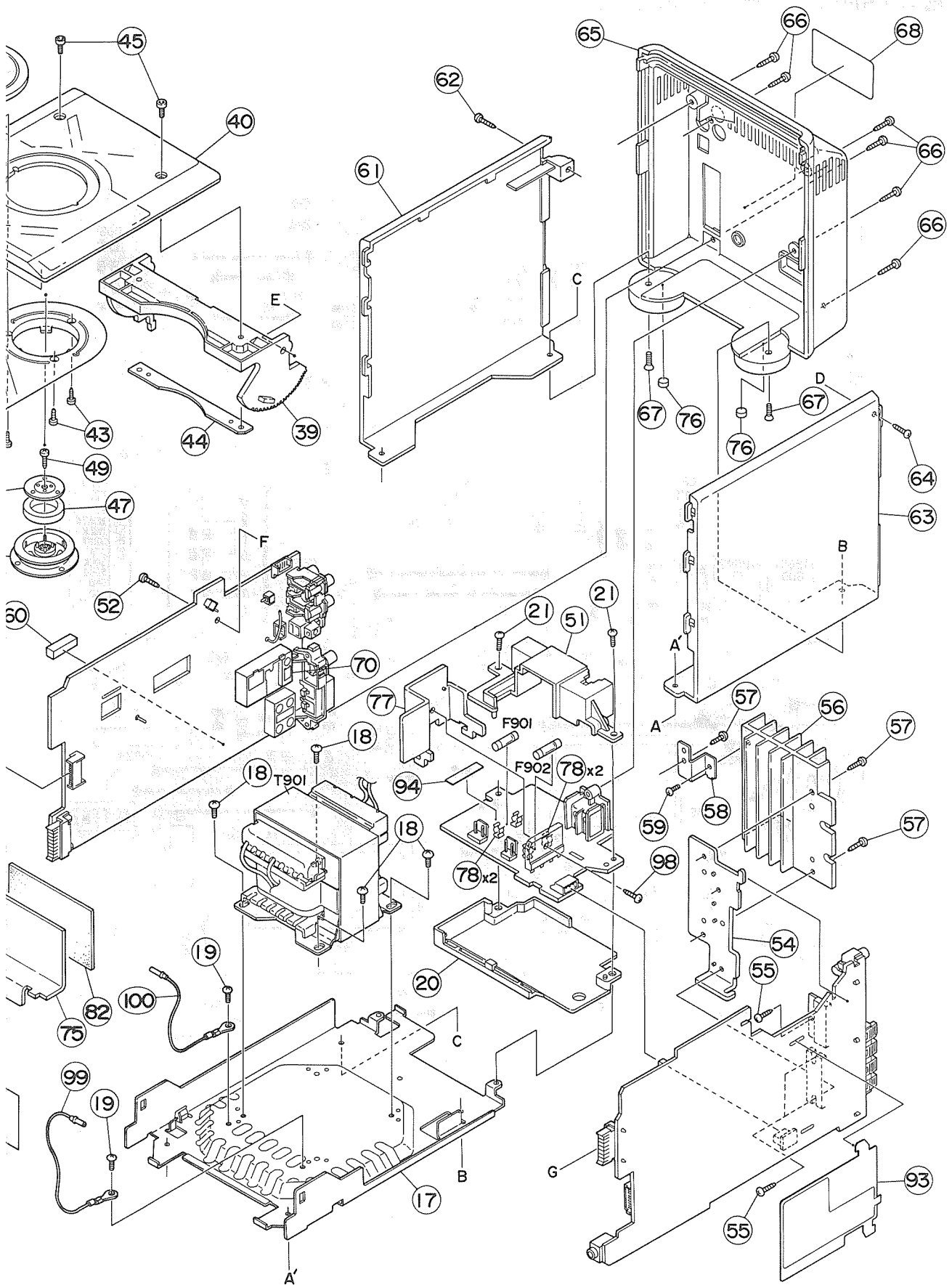
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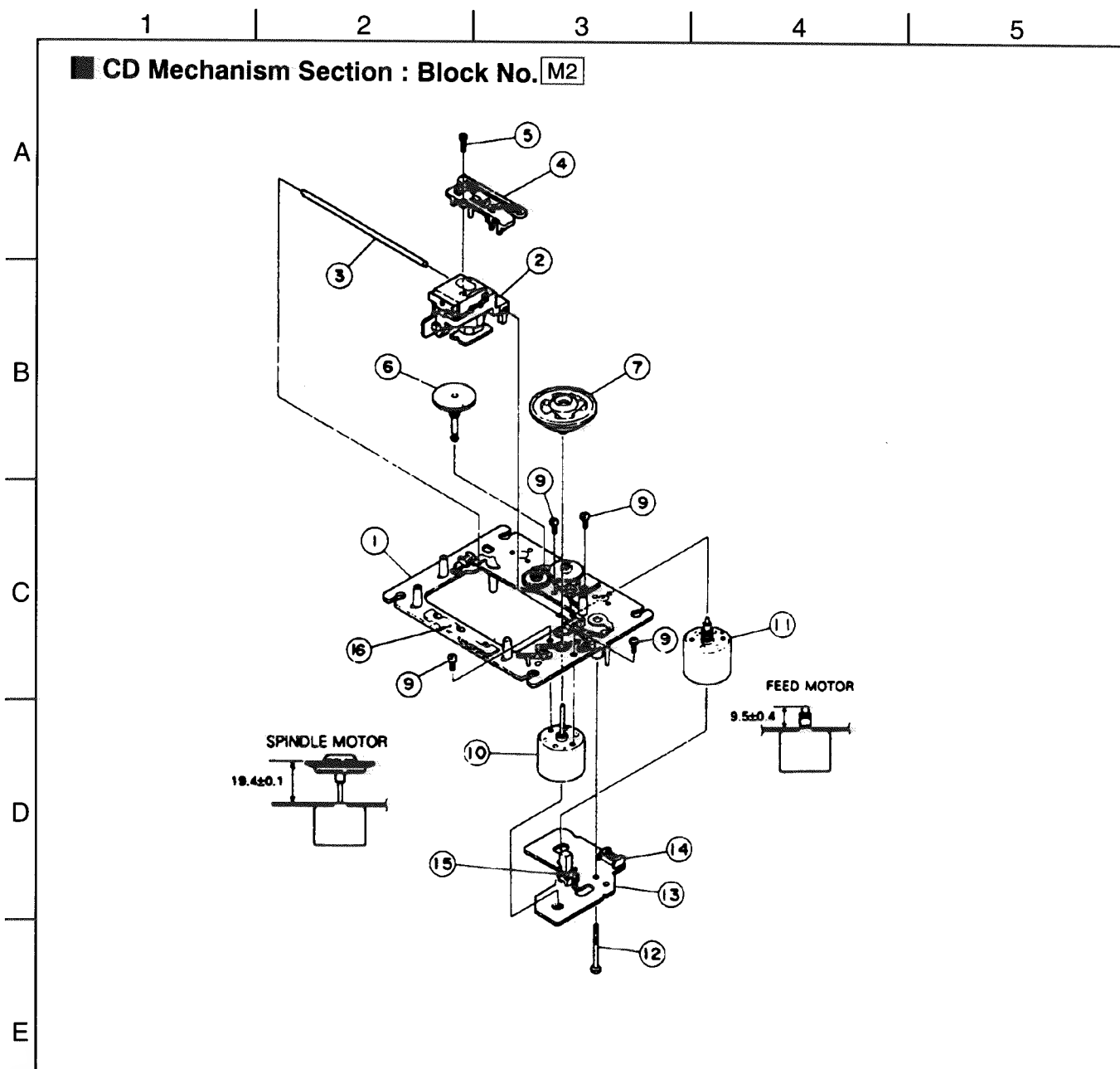
■ Enclosure Assembly Parts List

BLOCK NO. M1MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
1	VJG1426-008	FRONT PANEL		1		
2	VJE3006-001	FITTING (L)		1		
3	VJE3007-001	FITTING (R)		1		
4	VJD5492-004	PLATE		1		
5	E408131-001	REMOTE LENS		1		
6	E406971-221	JVC MARK		1		
7	VJK3699-001	FRONT LENS		1		
8	VKW3001-321	COMP. SPRING		1		
9	VJD5491-001	VOL ESCUTCHEON		1		
10	VJK4493-001SC	LENS(STANDBY)		1		
11	SBSF3012Z	SCREW	PWB + FRONT	1		
12	VYH3944-002	LCD HOLDER		1		
13	VXL4448-001	VOLUME KNOB		1		
14	VJK4490-001SC	LED LENS		1		
15	VXP3807-002SC	BUTTON		1		
16	VJD2470-002SC	TOP PANEL		1		
17	VKL1444-001SC	BOTTOM CHASSIS		1		
18	SBST4006Z	SCREW		4		
19	SBST3004Z	SCREW		2		
20	VYH3939-001SC	AC HOLDER		1		
21	SBST3010Z	SCREW		2		
22	SBSF3012Z	SCREW		2		
23	VJD5410-005	PICK COVER		1		
24	SDSF2006M	SCREW		4		
25	E75609-001	INSULATOR		2		
26	E75609-002	INSULATOR		2		
27	VYH8089-001SC	CD MECHA HOLDER		1		
28	VYH8089-002SC	CD MECHA HOLDER		1		
29	SBSF3012Z	SCREW		4		
30	VMA4692-002SC	SHIELD		1		
31	VJD1210-002	CD CASE		1		
33	VYH8090-001SC	GEAR 1		1		
34	VYH8091-002SC	GEAR 2		1		
35	VYH7699-001	PULLEY		1		
36	MXN-13FB12F	DC MOTOR ASS'Y		1		
37	SPSP3004Z	SCREW		2		
38	VKB3000-170	BELT		1		
39	VJE3014-001SC	CD DOOR		1		
40	VJE3011-001	CD DOOR LENS		1		
41	VJK3701-001SC	ILLUMI LENS		1		
42	VJD5489-004	ORNAMENT		1		
43	SDSF2006M	SCREW		3		
44	VJD5490-001SC	STOPPER		1		
45	VKZ4765-001	S.BOLT(DIN)		2		
46	VYH3726-002SS	IC		1		
47	VYH7313-003	MAGNET		1		
48	VYH7677-201	YOKE		1		
49	SDSF2606Z	SCREW		1		
50	SBSF3012Z	SCREW	CD CASE + CD PW	4		
51	VYH3962-001	SW HOLDER		1		
52	SBSF3012Z	SCREW		1		
53	VYSS1R1-108	SPACER	FOR DOOR LENS	2		
54	VYH8093-001SC	IC HOLDER		1		
55	SBSF3010Z	SCREW		3		
56	VMH3017-201	HEAT SINK		1		

BLOCK NO. **M1MM**

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
57	SBSF3012Z	SCREW	H.SINK+IC HOL,C	3		
58	VYH8107-001	BRACKET		1		
59	SBST3008Z	SCREW		1		
60	VYSH104-047	SPACER		1		
61	VJD2471-001	SIDE PANEL (L)		1		
62	SBSF3012Z	SCREW		1		
63	VJD2472-001	SIDE PANEL (R)		1		
64	SBSF3012Z	SCREW		1		
65	VJG1430-001	REAR COVER		1		
66	SBSF3012Z	SCREW	REAR BOTTOM	6		
67	SSST3010Z	SCREW		4		
68	VYN9302-C023	NAME PLATE		1		
70	VMA4709-001	SHIELD		1		
75	VMA4706-002SC	SHIELD		1		
76	VJF4055-001	FOOT		4		
77	VYH8094-002SC	HEAT SINK		1		
78	EMG7331-003Z	FUSE CLIP		4		
79	SBSF3012Z	SCREW		2		
80	SBSF3010Z	SCREW		1		
81	VYSR102-062	SPACER		1		
82	VYSR102-063	SPACER		1		
83	VYSR102-066	SPACER		2		
84	PU59915-105	SPACER		1		
85	VYSS1R1-109	SPACER	FOR EL	1		
86	VYSS1R1-110	SPACER	PET FOR:EL	1		
87	VYSS1R5-080	SPACER		1		
88	VYSA1R4-050	SPACER		1		
89	VYSA1R6-021	SPACER		2		
92	VYST1R1-003	SPACER		1		
93	VMA4702-002	SHIELD		1		
94	PU59915-105	SPACER		1		
98	SBSF3010Z	SCREW		1		
99	VWE240-12NTSA	LUG WIRE		1		
100	VWE240-10NTSA	LUG WIRE		1		
101	VGL1208-001S	L.C.D.	DI701	1		
102	ESPR10001	L.E.PANEL	BL701(YELLOW)	1		
F 901	QMF51E2-R40SBS	FUSE	PRI	1		
F 902	QMF51E2-6R3J1	FUSE	SEC	1		
T 901	VTP66J2-12K	POWER TRANS		1		



CD Mechanism Parts List

BLOCK NO. M2MM

REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
1	EPB-002A	MECHA BASE ASSY		1		
2	OPTIMA-6S	OPTICAL PICK-UP		1		
3	E406777-001	GUIDE SHAFT		1		
4	E307746-001	CD RACK		1		
5	SDSF2006Z	SCREW	CD LACK ASS'Y	1		
6	EPB-003A	MECHA GEAR		1		
7	E75807-301	TURN TABLE		1		
9	SDSP2003N	SCREW	FOR MOTOR	4		
10	E406783-001	DC MOTOR	SPINDOL MOTOR	1		
11	E406784-001SA	DC MOTOR ASSY	FEED MOTOR	1		
12	E75832-001	SPECIAL SCREW	M.REAF SWITCH	1		
13	EMW10190-001	PRINTED BOARD	LEAF SWITCH	1		
14	EMV5109-006B	6P PLUG ASS'Y		1		
15	ESB1100-005	LEAF SWITCH		1		
16	E407212-001	DAMPER		1		

14.Electrical Parts List

Main Amplifier Board

BLOCK NO. 00111111						BLOCK NO. 00111111					
A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX	A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
A	C 901	QFLC1HJ-683ZM	M.CAPACITOR	.068MF 5% 50V		C3021	QER41CM-476M	E.CAPACITOR	47MF 20% 16V		
A	C 902	QFLC1HJ-683ZM	M.CAPACITOR	.068MF 5% 50V		C3022	QTE1C06-226Z	E.CAPACITOR	1.0MF 20% 50V		
A	C 903	QFLC1HJ-683ZM	M.CAPACITOR	.068MF 5% 50V		C3031	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V		
A	C 904	QFLC1HJ-683ZM	M.CAPACITOR	.068MF 5% 50V		C3032	QER41HM-105VM	E.CAPACITOR	1.0MF 20% 50V		
A	CN300	EMV7163-004	CONNECTOR			C3033	QFV71HJ-563ZM	FILM CAPACITOR	.056MF 5% 50V		
A	CN301	VMC0075-R02	CONNECTOR	CD DOOR		C3034	QFV71HJ-563ZM	FILM CAPACITOR	.056MF 5% 50V		
A	CN302	VMC0340-S16	CONNECTOR	MICOM		C3035	QFT41HM-105	E.CAPACITOR	1.0MF 20% 50V		
A	CN303	VMC0314-P14	CONNECTOR	EL/TU/CONN		C3036	QET41CM-106	E.CAPACITOR	10MF 20% 16V		
A	CN351	VM20015-002	POST PIN	SHARSHI EARTH		C3037	QET41CM-106	E.CAPACITOR	10MF 20% 16V		
A	CN371	VM20015-011	STYLE PIN	WR352 WIRE CLAM		C3041	QER41CM-106	E.CAPACITOR	10MF 20% 16V		
A	CN373	VM20015-011	STYLE PIN	CN351 S WIRE CL		C3051	QET41AM-107	E.CAPACITOR	100MF 20% 10V		
A	CN501	VMC0314-S14	CONNECTOR			C3052	QET41CM-226	E.CAPACITOR	22MF 20% 16V		
A	CN502	VMC0314-S14	CONNECTOR			C3053	QET41CM-106	E.CAPACITOR	10MF 20% 16V		
A	CN503	VMC0075-003	CONNECTOR			C3081	QET41AM-227	E.CAPACITOR	220MF 20% 10V		
A	CN901	VM70049-B02	CONNECTOR	PRI		C3083	QET41HM-474	E.CAPACITOR	.47MF 20% 50V		
A	CN902	VM70049-A02	CONNECTOR	SEC		C3084	QET41HM-474	E.CAPACITOR	.47MF 20% 50V		
A	CN903	EMV5163-004R	CONNECTOR	MAIN		C3085	QET41HM-474	E.CAPACITOR	.47MF 20% 50V		
A	C1001	QCB81HK-331Y	C.CAPACITOR	330PF 10% 50V		C3086	EET81CM-106E	E.CAPACITOR	10MF 20% 25V		
A	C1002	QCB81HK-104V	C.CAPACITOR	.10MF 20% 25V		C3087	QET41EM-106	E.CAPACITOR	10MF 20% 16V		
A	C1003	QCB81EM-104V	C.CAPACITOR	.10MF 20% 25V		C3088	QER41CM-106	E.CAPACITOR	33PF 5% 50V		
A	C1006	QTE1V06-106Z	E.CAPACITOR			C3501	QCS11HJ-330	C.CAPACITOR	200PF 5% 50V		
A	C1021	QFN81HJ-683	M.CAPACITOR	MAKER SHITEI		C3502	QCS11HJ-201	C.CAPACITOR	200PF 5% 50V		
A	C1022	QFN81HJ-683	M.CAPACITOR	MAKER SHITEI		C3503	QFLC1HJ-473ZM	M.CAPACITOR	.047MF 5% 50V		
A	C1024	QTE1C06-476Z	E.CAPACITOR			C3504	QFLC1HJ-473ZM	M.CAPACITOR	.047MF 5% 50V		
A	C1025	QTE1V06-106Z	E.CAPACITOR			C3505	QFLC1HJ-473ZM	M.CAPACITOR	.047MF 5% 50V		
A	C1026	QFV41HJ-474	FILM CAPACITOR	.47MF 5% 50V		C3507	QCB81HK-271Y	C.CAPACITOR	270PF 10% 50V		
A	C1051	QCS11HJ-101	C.CAPACITOR	100PF 5% 50V		C3508	QCS11HJ-680	C.CAPACITOR	68PF 5% 50V		
A	C1082	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V		C5301	QET41HM-475	E.CAPACITOR	TU SW		
A	C1083	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V		C5302	QET41AM-107	E.CAPACITOR	TU SW		
A	C1084	QFLC1HJ-472ZM	M.CAPACITOR	.056MF 5% 50V		C5301	QET41CM-227	E.CAPACITOR	220MF 20% 16V		
A	C1087	EF20101-392S	P.P.CAPACITOR	ONHITU		C5302	QER61EM-685Z	E.CAPACITOR	6.8MF 20% 25V		
A	C1088	QTE1V06-106Z	E.CAPACITOR			C5303	QFLC1HJ-333ZM	M.CAPACITOR	.033MF 5% 50V		
A	C1089	QTE1V06-106Z	E.CAPACITOR			C5304	QCB81CM-103Y	C.CAPACITOR	.010MF 20% 16V		
A	C2001	QCB81HK-331Y	C.CAPACITOR	330PF 10% 50V		C5305	QCB81CM-103Y	C.CAPACITOR	.010MF 20% 16V		
A	C2002	QCB81EM-104V	C.CAPACITOR	.10MF 20% 25V		C5306	QCB81HK-102Y	C.CAPACITOR	-10 KISEIHATUSI		
A	C2003	QCB81EM-104V	C.CAPACITOR	.10MF 20% 25V		C9001	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V		
A	C2006	QTE1V06-106Z	E.CAPACITOR			C9002	QET41EM-107	E.CAPACITOR	100MF 20% 25V		
A	C2021	QFN81HJ-683	M.CAPACITOR	MAKER SHITEI		C9101	QET41HM-474	E.CAPACITOR	.47MF 20% 50V		
A	C2022	QFN81HJ-683	M.CAPACITOR	MAKER SHITEI		C9102	QET41EM-106	E.CAPACITOR	10MF 20% 25V		
A	C2024	QTE1C06-476Z	E.CAPACITOR			C9103	QET41HM-105	E.CAPACITOR	1.0MF 20% 50V		
A	C2025	QTE1V06-106Z	E.CAPACITOR			C9201	QET41CM-106	E.CAPACITOR	10MF 20% 16V		
A	C2026	QFV41HJ-474	FILM CAPACITOR	.47MF 5% 50V		C9202	QET41CM-337ZM	E.CAPACITOR	330MF 20% 16V		
A	C2051	QCS11HJ-101	C.CAPACITOR	100PF 5% 50V		C9203	QET41CM-476	E.CAPACITOR	47MF 20% 16V		
A	C2082	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V		C9301	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V		
A	C2083	QFLC1HJ-563	M.CAPACITOR	.056MF 5% 50V		C9302	QET41EM-106	E.CAPACITOR	10MF 20% 25V		
A	C2084	QFLC1HJ-472ZM	M.CAPACITOR	4700PF 5% 50V		D3021	MTZ4.3JB	ZENER DIODE			
A	C2087	EF20101-392S	P.P.CAPACITOR	ONHITU		D3031	1SS133	SI DIODE			
A	C2088	QTE1V06-106Z	E.CAPACITOR			D3032	1SS133	SI DIODE			
A	C2089	QTE1V06-106Z	E.CAPACITOR	VOL IC GAIN +4D		D3033	1SS133	SI DIODE			
A	C3001	QET41EM-828	E.CAPACITOR	8200MF 20% 25V		D3034	1SS133	SI DIODE			
A	C3002	QFV41HJ-104ZM	FILM CAPACITOR	.10MF 5% 50V		D3501	1SS133	SI DIODE	MAKER SITEI		
A	C3003	QET41EM-107	E.CAPACITOR	100MF 20% 25V		D3502	1SS133	SI DIODE	MAKER SITEI		
A	C3004	EET81CM-337ZE	E.CAPACITOR	33MF 20% 10V		D3511	RB721Q	DIODE	TU SW		
A	C3005	QET41AM-356ZN	E.CAPACITOR	2.2MF 20% 50V		D5301	MTZ3.9JB	ZENER DIODE	TU SW		
A	C3006	QET41HM-225ZM	E.CAPACITOR			D5302	1SS133	SI DIODE			

BLOCK NO. 01111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R1032	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R1033	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R1034	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
R1041	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R1051	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R1052	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
R1082	QRD161J-512	CARBON RESISTOR	5.1K 5% 1/6W	
R1083	QRD161J-162	CARBON RESISTOR	1.6K 5% 1/6W	
R1085	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R1086	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R1087	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R1088	QRD161J-333	CARBON RESISTOR	VOL IC GAIN +4D	
R1089	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R2001	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R2002	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R2003	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
R2004	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R2022	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R2023	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R2024	QRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W	
R2025	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R2027	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R2028	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R2029	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R2031	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R2032	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R2033	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R2034	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
R2041	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R2051	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R2052	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
R2082	QRD161J-512	CARBON RESISTOR	5.1K 5% 1/6W	
R2083	QRD161J-162	CARBON RESISTOR	1.6K 5% 1/6W	
R2085	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
R2086	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R2087	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R2088	QRD161J-333	CARBON RESISTOR	VOL IC GAIN +4D	
R2089	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R3001	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R3021	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R3022	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
R3031	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R3032	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R3033	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
R3034	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
R3035	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R3036	QRD161J-513	CARBON RESISTOR	51K 5% 1/6W	
R3051	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R3052	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R3053	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R3054	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
R3055	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R3056	QRD161J-331	CARBON RESISTOR	330 5% 1/6W	
R3081	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R3082	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	

BLOCK NO. 01111111

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
D5303	1SS133	SI DIODE	TU SW	
D9001	MTZ10JAT-77	ZENER DIODE	STANDBY MOTOR	
D9002	1SR35-100A-T2	SI DIODE		
D9101	MA4075(M)	ZENER DIODE		
D9201	MTZ6.8JB	ZENER DIODE		
D9202	MTZ5.1JB	ZENER DIODE		
D9301	1SS133	SI DIODE		
D9302	MTZ8.2JB	ZENER DIODE		
D9303	1SS133	SI DIODE		
IC 31	LA4705NA	IC	POWER AMP	
IC 32	NJM4580LD	IC	AHB AMP	
IC 35	NJM4580L	IC		
IC 38	BH382S	IC	E VOL	
IC 91	D5SBA20-4101	SI DIODE		
IC901	BA3960	IC	REG	
IC931	KIA78S06P-T	IC		
J 901	ONC0001-001	AC SOCKET 8TYPE		
J3002	FMJ3020-101	1PIN PINJ BLACK	SUB WOOFER	
J3003	FMJ4001-001	SPK TERMINAL	SPEAKER	
J3004	QMS3L60-E40G	3.5 JACK	KIKAKU HENKOU	
L3001	VQP0018-470	INDUCTOR		
L5901	VQH1009-042	OSC COIL (BIAS)		
L5902	VGP0033-100Z	INDUCTOR		
L9001	VGP0033-100Z	INDUCTOR	EL&MICON NOISE	
Q1031	KTC3199(GL)-T	TRANSISTOR		
Q1041	2SD2144S(VW)	TRANSISTOR		
Q1051	2SK301(P-8)	TRANSISTOR		
Q2031	KTC3199(GL)-T	TRANSISTOR		
Q2041	2SD2144S(VW)	TRANSISTOR		
Q2051	2SK301(P-8)	TRANSISTOR		
Q3041	KRA101M-T	TRANSISTOR	BASS MUTE	
Q3081	2SD2144S(VW)	TRANSISTOR		
Q3501	KTC3199(GL)-T	TRANSISTOR		
Q3502	KTC3199(GL)-T	TRANSISTOR		
Q3511	DTC144WSTP	TRANSISTOR		
Q5301	KTA1267(VG)-T	TRANSISTOR	TU SW	
Q5302	KTC3199(GL)-T	TRANSISTOR	TU SW	
Q5901	2SD2144S(VW)	TRANSISTOR		
Q5902	KRC102M-T	D. TRANSISTOR	FOR DIMMER	
Q5903	2SA952(L-K)	TRANSISTOR		
Q8001	KTC3199(GL)-T	TRANSISTOR		
Q9201	2SD882(P-8)	TRANSISTOR		
Q9202	KRA107M-T	TRANSISTOR		
R1001	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R1002	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
R1003	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
R1004	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R1022	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
R1023	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
R1024	QRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W	
R1025	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R1027	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
R1028	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R1029	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
R1031	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
CN781	ENV7159-006	CONNECTOR BT0B	TO SW		
CN801	ENV5159-006R	B TO B CONNECTO	TO MICOM		
C4001	QET41CM-106	E CAPACITOR	10MF 20% 16V		
C4002	QETC0JM-227Z	E CAPACITOR	220MF 20% 6.3V		
C4003	QET41AM-107	E CAPACITOR	100MF 20% 10V		
C6121	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V		
C6122	NCB21HK-332AY	C CAPACITOR	3300PF 10% 50V		
C6151	NCB21HJ-100AY	C CAPACITOR	10PF 5% 50V		
C6152	QER41EM-475VM	E CAPACITOR	4.7MF 20% 25V		
C6155	QER41EM-475VM	E CAPACITOR	4.7MF 20% 25V		
C6156	QTE1C03-106Z	E CAPACITOR			
C6221	NCB21HK-122AY	C CAPACITOR	1200PF 10% 50V		
C6222	NCB21HK-332AY	C CAPACITOR	3300PF 10% 50V		
C6251	NCB21HJ-100AY	C CAPACITOR	10PF 5% 50V		
C6252	QER41EM-475VM	E CAPACITOR	4.7MF 20% 25V		
C6255	QER41EM-475VM	E CAPACITOR	4.7MF 20% 25V		
C6256	QTE1C03-106Z	E CAPACITOR			
C6301	QER61HM-684ZM	E CAPACITOR	.68MF 20% 50V		
C6302	NCB21HK-103AY	E CAPACITOR	.010MF 10% 50V		
C6321	QER41CM-106	E CAPACITOR	10MF 20% 16V		
C6322	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		
C6341	QER41HM-105VM	E CAPACITOR	1.0MF 20% 50V		
C6343	QCB81HK-151Y	C CAPACITOR	150PF 10% 50V		
C6351	QER41CM-476M	E CAPACITOR	47MF 20% 16V		
C6352	QTE1V06-106Z	E CAPACITOR			
C6353	NCB21EK-823AY	C CAPACITOR	.082MF 10% 25V		
C6370	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V		
C6371	NCB21HK-223AY	C CAPACITOR	.022MF 10% 50V		
C6372	QCB81HK-151Y	C CAPACITOR	150PF 10% 50V		
C6373	NCB21HK-182AY	C CAPACITOR	1800PF 10% 50V		
C6374	NCB21HJ-151AY	C CAPACITOR	150PF 5% 50V		
C6375	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		
C6376	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		
C7001	NCB21HJ-180AY	C CAPACITOR	18PF 5% 50V		
C7002	NCB21HJ-180AY	C CAPACITOR	18PF 5% 50V		
C7004	NCB21HJ-360AY	C CAPACITOR	36PF 5% 50V		
C7005	NCB21HJ-360AY	C CAPACITOR	39PF 5% 50V		
C7006	NCB21HJ-200AY	C CAPACITOR	20PF 5% 50V		
C7007	NCB21HJ-220AY	C CAPACITOR	22PF 5% 50V		
C7008	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		
C7009	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		
C7011	QER41AM-107	E CAPACITOR	100MF 20% 10V		
C7012	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		
C7013	QFLC1HJ-104ZM	M CAPACITOR	10MF 5% 50V		
C7014	QER41CM-106	E CAPACITOR	10MF 20% 16V		
C7021	QER41CM-476M	E CAPACITOR	47MF 20% 16V		
C7022	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		
C7026	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		
C7027	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		
C7031	EECS0HD473H	E-D.L CAPACITOR			
C7051	QER41CM-106	E CAPACITOR	10MF 20% 16V		
C7052	QER41HM-225	E CAPACITOR	2.2MF 20% 50V		
C7081	NCB21HK-102AY	C CAPACITOR	MICOM NOISE		
C7091	QER41AM-107	E CAPACITOR	100MF 20% 10V		
C7701	NCB21HJ-151AY	C CAPACITOR	150PF 5% 50V		

BLOCK NO. 02

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C7702	NCB21HJ-151AY	C CAPACITOR	150PF 5% 50V		
C7704	NCB21HJ-331AY	C CAPACITOR	330PF 5% 50V		
C7719	NCB21HJ-271AY	C CAPACITOR	MICOM NOISE		
C7721	NCB21HJ-271AY	C CAPACITOR	MICOM NOISE		
C7722	NCB21HJ-271AY	C CAPACITOR	MICOM NOISE		
C7723	NCB21HJ-271AY	C CAPACITOR	MICOM NOISE		
C7724	NCB21HK-102AY	C CAPACITOR	MICOM NOISE		
C7725	NCB21HK-102AY	C CAPACITOR	MICOM NOISE		
C7731	NCB21HK-102AY	C CAPACITOR	1000PF 10% 50V		
C7737	NCB21HK-102AY	C CAPACITOR	MICOM NOISE		
C7757	QER41HM-225	E CAPACITOR	2.2MF 20% 50V		
C7758	QER61HM-335ZM	E CAPACITOR	3.3MF 20% 50V		
C7759	QER41HM-225	E CAPACITOR	2.2MF 20% 50V		
C7771	QER41HM-105VM	E CAPACITOR	1.0MF 20% 50V		
C7773	QER41HM-105VM	E CAPACITOR	1.0MF 20% 50V		
C7782	NCB21HJ-151AY	C CAPACITOR	MICOM NOISE		
C7783	NCB21HJ-151AY	C CAPACITOR	150PF 5% 50V		
C7787	NCB21HK-103AY	C CAPACITOR	.010MF 10% 50V		
D 1	1SS133	SI DIODE			
D 2	1SS133	SI DIODE			
D 3	1SS133	SI DIODE			
D 4	1SS133	SI DIODE			
D1701	VGL1208-001S	L.C.D.			
D6341	MTZ6-2JB	ZENER DIODE			
D7001	1SS133	SI DIODE	US5V		
D7011	MTZ8-2JB	ZENER DIODE			
D7012	1SS133	SI DIODE			
D7031	1SS133	SI DIODE	BACK UP		
D7032	1SS133	SI DIODE	XKILL		
D7051	1SS133	SI DIODE	RESET		
D7061	MTZ5-1JC	ZENER DIODE	BACK UP		
D7091	SLR-342VC-109	LED RED HB.9MM	STANDBY LED		
D7092	1SS133	SI DIODE			
D7095	1SS133	SI DIODE			
D8101	SLR-342MC-109	LED GRN. HB.9MM			
D8102	SLR-342MC-109	LED GRN. HB.9MM	CD DOOR		
D8103	SLT-481C09-16	LED	CD DOOR		
IC 1	TA2057N	IC	CD DOOR		
IC 2	LC72136	IC			
IC401	TA8409S	IC			
IC666	BA15218F	IC	FUNCTION		
IC701	UPD78053GF-111	IC	SYSTEM MICOM		
IC702	SBX1971-52	RM.RECIVER			
IC703	KIA78S06P-T	IC			
J 1	FMB101V-401K	ANT TERMINAL	AM/FM ANT		
JS701	VCV7003-001	ROTARY ENCODER			
J6001	VMJ3025-001	4PIN JACK ASSY			
J6371	GP1F32T	OPTICAL JACK			
K6370	VQZ0048-007	INDUCTOR			
K7001	VQZ0107-002	INDUCTOR	VSS		
K7003	VQZ0107-002	INDUCTOR			
K8001	VQZ0107-002	INDUCTOR			
L 1	VQZ0098-202	COIL BLOCK			
L 4	VQPO018-221	INDUCTOR	MW/LW RF/OSC		
L4001	VQPO028-221Z	INDUCTOR			

BLOCK NO. 02

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
L4002	VQ0107-002	INDUCTOR		
L6121	EQF0101-010	FILTER		
L8221	EQF0101-010	FILTER		
L6370	VQPO018-100	INDUCTOR	SW5V	
L7002	VQPO033-100Z	INDUCTOR	AVREF	
L7332	VQPO018-4R7	INDUCTOR	SDATA	
L7701	VQPO018-4R7	INDUCTOR	SCK	
L7702	VQPO018-4R7	INDUCTOR	AVDD	
L7731	VQPO033-100Z	INDUCTOR		
Q 1	25C2668(O)	TRANSISTOR		
Q 6	DTA114YKA-X	TRANSISTOR		
Q 7	2SA1037K(R)	TRANSISTOR		
Q 8	2SA1037K(R)	TRANSISTOR		
Q4001	25C2412KK1	TRANSISTOR		
Q4002	25C2412KK1	TRANSISTOR		
Q4003	DTA1143TS	TRANSISTOR		
Q6101	25C2412KK1	TRANSISTOR		
Q6121	25C2412KK1	TRANSISTOR		
Q6141	25C2412KK1	TRANSISTOR		
Q6201	25C2412KK1	TRANSISTOR		
Q6221	25C2412KK1	TRANSISTOR		
Q6241	25C2412KK1	TRANSISTOR		
Q6301	25C2412KK1	TRANSISTOR		
Q6321	DTA114EKA-X	TRANSISTOR		
Q6341	DTA114EKA-X	TRANSISTOR		
Q7001	25C2668(O)	TRANSISTOR	CLOCK SHIFT	
Q7002	25C2668(O)	TRANSISTOR	CLOCK SHIFT	
Q7031	2SA1037AK(RS)-X	HIP TRANSISTOR	SW5V	
Q7051	DTA114TKT146	TRANSISTOR	RESET	
Q7061	25C2412KK1	TRANSISTOR	BACK UP	
Q7091	25C2412KK1	TRANSISTOR	POUT SW	
Q7092	2SA1037AK(RS)-X	HIP TRANSISTOR	STANDBY LED CON	
Q7784	DTA144TKA-X	TRANSISTOR	TUNER DATA CONT	
R 1	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 2	NRSA02J-820NY	MG RESISTOR	82 5% 1/10W	
R 3	NRSA02J-OR0NY	MG RESISTOR	5% 1/10W	
R 10	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 12	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 13	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R 20	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
R 21	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
R 22	NRSA02J-331NY	MG RESISTOR	330 5% 1/10W	
R 23	NRSA02J-270NY	MG RESISTOR	27 5% 1/10W	
R 24	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
R 25	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 27	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R 29	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 30	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 31	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 32	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R 34	NRSA02J-473NY	MG RESISTOR	33K 5% 1/10W	
R 35	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R 36	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R 37	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 38	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	

BLOCK NO. 02

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 39	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R 42	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 43	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 44	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 45	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 48	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 52	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 54	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R 55	NRSA02J-182NY	MG RESISTOR	1.8K 5% 1/10W	
R 56	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R 57	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R 66	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R 69	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R4001	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R4002	NRSA02J-682NY	MG RESISTOR	6.8K 5% 1/10W	
R4003	QRD14CJ-3R9S	UNF - C-RESISTOR	3.9 5% 1/4W	
R4004	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R4005	QRD161J-391	CARBON RESISTOR	390 5% 1/6W	
R4006	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
R6101	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
R6102	NRSA02J-623NY	MG RESISTOR	62K 5% 1/10W	
R6103	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R6104	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R6106	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R6121	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R6122	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R6123	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R6124	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R6141	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
R6142	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
R6143	NRSA02J-123NY	MG RESISTOR	12K 5% 1/10W	
R6144	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R6145	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
R6151	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
R6152	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R6156	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	
R6157	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R6201	NRSA02J-224NY	MG RESISTOR	220K 5% 1/10W	
R6202	NRSA02J-623NY	MG RESISTOR	62K 5% 1/10W	
R6203	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R6204	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R6206	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R6221	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R6222	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R6232	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R6234	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R6241	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
R6242	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R6243	NRSA02J-153NY	MG RESISTOR	12K 5% 1/10W	
R6244	NRSA02J-332NY	MG RESISTOR	3.3K 5% 1/10W	
R6245	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
R6251	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
R6252	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R6256	NRSA02J-124NY	MG RESISTOR	120K 5% 1/10W	
R6257	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	

BLOCK NO. 02

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R7732	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7733	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7734	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7735	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7736	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7737	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7738	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7741	NRSA02J-154NY	MG RESISTOR	150K 5% 1/10W	
R7742	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7743	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7746	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7747	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R7749	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7751	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7752	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7753	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7754	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7755	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7756	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7757	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R7758	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R7759	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R7761	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7762	NRSA02J-153NY	MG RESISTOR	15K 5% 1/10W	
R7763	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7764	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7771	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
R7772	NRSA02J-114NYM	RESISTOR	110K 5% 1/10W	
R7773	NRSA02J-114NYM	RESISTOR	110K 5% 1/10W	
R7774	NRSA02J-ORONY	MG RESISTOR	5% 1/10W	
R7775	NRSA02J-683NY	MG RESISTOR	68K 5% 1/10W	
R7783	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7784	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7785	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7819	QRD161J-122	CARBON RESISTOR	MICOM NOISE	
R7821	NRSA02J-102NY	MG RESISTOR	MICOM NOISE	
R7822	QRD161J-122	CARBON RESISTOR	MICOM NOISE	
R7823	NRSA02J-102NY	MG RESISTOR	FOR B7854	
R8001	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R8002	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R8003	NRSA02J-122NY	MG RESISTOR	1.2K 5% 1/10W	
R8004	NRSA02J-152NY	MG RESISTOR	1.5K 5% 1/10W	
R8005	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R8006	NRSA02J-272NY	MG RESISTOR	2.7K 5% 1/10W	
R8007	NRSA02J-392NY	MG RESISTOR	3.9K 5% 1/10W	
R8008	NRSA02J-562NY	MG RESISTOR	5.6K 5% 1/10W	
R8009	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R8011	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R8012	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R8020	NRSA02J-473NY	MG RESISTOR	VERSION	
R8021	NRSA02J-ORONY	MG RESISTOR	VERSION	
R8101	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
R8102	NRSA02J-391NY	MG RESISTOR	390 5% 1/10W	
S6370	VSH1153-002	SWITCH		
S6371	VSH1153-002	SWITCH		

BLOCK NO. 02

A REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R6301	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R6341	NRSA02J-223NY	MG RESISTOR	22K 5% 1/10W	
R6351	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R6352	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R6353	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R6370	NRSA02J-913NY	RESISTOR	91K 5% 1/10W	
R6371	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R6372	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7005	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
R7006	NRSA02J-822NY	MG RESISTOR	8.2K 5% 1/10W	
R7028	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7029	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7031	QRD161J-331	CARBON RESISTOR	330 5% 1/6W	
R7032	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7033	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7034	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7035	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7061	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R7062	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R7063	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R7081	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R7082	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R7083	NRSA02J-104NY	MG RESISTOR	100K 5% 1/10W	
R7084	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7091	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7092	NRSA02J-271NY	MG RESISTOR	270 5% 1/10W	
R7093	NRSA02J-133NY	MG RESISTOR	15K 5% 1/10W	
R7095	NRSA02J-333NY	MG RESISTOR	33K 5% 1/10W	
R7096	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7097	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7098	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7641	NRSA02J-473NY	MG RESISTOR	47K 5% 1/10W	
R7701	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7702	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7703	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7704	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7705	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7706	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7711	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7712	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7713	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7715	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7716	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R7717	NRSA02J-472NY	MG RESISTOR	4.7K 5% 1/10W	
R7718	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7719	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7721	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7722	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7723	NRSA02J-102NY	MG RESISTOR	1.0K 5% 1/10W	
R7724	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7725	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7726	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7727	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	
R7729	NRSA02J-103NY	MG RESISTOR	10K 5% 1/10W	
R7731	NRSA02J-222NY	MG RESISTOR	2.2K 5% 1/10W	

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
C 604	QKX51AM-107	E CAPACITOR	100MF 20% 10V	
C 605	QET41EM-106	E.CAPACITOR	10MF 20% 25V	
C 606	QCB81HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 607	QCB81HK-102Y	C.CAPACITOR	1000PF 10% 50V	
C 608	QET41HM-105	E.CAPACITOR	1.0MF 20% 50V	
C 609	QCB81HK-101Y	C.CAPACITOR	100PF 10% 50V	
C 610	QFLC1HJ-273ZM	M.CAPACITOR	.027MF 5% 50V	
C 611	QCBX1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
C 612	QCBX1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
C 613	QCB81HK-331Y	C.CAPACITOR	330PF 10% 50V	
C 614	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
C 615	QCHB1E1-223	C.CAPACITOR	.022MF +80:-20%	
C 616	QCHB1E1-223	C.CAPACITOR	.022MF +80:-20%	
C 617	QCHB1E1-223	C.CAPACITOR	.022MF +80:-20%	
C 618	QCBX1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
C 619	QCB81HK-271Y	C.CAPACITOR	270PF 10% 50V	
C 620	QCS11HJ-470	C.CAPACITOR	47PF 5% 50V	
C 621	QCR81HK-821Y	C.CAPACITOR	820PF 10% 50V	
C 622	QET41AM-476	E.CAPACITOR	47MF 20% 10V	
C 623	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
C 628	QGC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
C 629	QET41AM-107	E.CAPACITOR	100MF 20% 10V	
C 631	QET41AM-477	E.CAPACITOR	470MF 20% 10V	
C 632	QKX51AM-107	E.CAPACITOR	100MF 20% 10V	
C 651	QCS11HJ-120	C.CAPACITOR	12PF 5% 50V	
C 652	QCS11HJ-150	C.CAPACITOR	15PF 5% 50V	
C 653	QCHB1E1-223	C.CAPACITOR	.022MF +80:-20%	
C 655	QGC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
C 661	QCB81HK-471Y	C.CAPACITOR	470PF 10% 50V	
C 662	QCHB1E1-223	C.CAPACITOR	.022MF +80:-20%	
C 663	QFLC1HJ-223ZM	M.CAPACITOR	.022MF 5% 50V	
C 664	QCHB1E1-223	C.CAPACITOR	.022MF +80:-20%	
C 665	QFV71HJ-334ZM	FILM CAPACITOR	.33MF 5% 50V	
C 671	QCBX1CM-152Y	C.CAPACITOR	1500PF 20% 16V	
C 672	QCBX1CM-152Y	C.CAPACITOR	1500PF 20% 16V	
C 673	QTE1C05-227	E CAPACITOR		
C 674	QCHB1E1-223	C.CAPACITOR	.022MF +80:-20%	
C 675	QCB81HK-102Y	C.CAPACITOR	AG-DG	
C 676	QCB81HK-102Y	C.CAPACITOR	AG-DG	
C 691	QCB81HK-151Y	C.CAPACITOR	DENGEN NOISE	
C 692	QCB81HK-151Y	C.CAPACITOR	DENGEN NOISE	
C 693	QCB81HK-151Y	C.CAPACITOR	DENGEN NOISE	
CN601	QGF1008F1-15	15PIN CONNECTOR	TO RF	
CN603	VMC0163-R07	CONNECTOR	TO AUDIO	
CN604	VMC0163-R11	CONNECTOR	TO MICON	
CN605	VMC0041-003	CONNECTOR	TO DIGITAL OUT	
D 661	1S3133	SI DIODE		
IC601	AN8806SB	IC	RF AMP	
IC602	BA8977P	IC	DRIVER	
IC603	MM35510	IC	1CHIP PROCESSOR	
Q 601	2SA952(L,K)	TRANSISTOR		
Q 631	2SA952(L,K)	TRANSISTOR	12K 5% 1/6W	
R 601	QR0161J-123	CARBON RESISTOR	1.2M 5% 1/6W	
R 603	QR0161J-125	CARBON RESISTOR	130K 5% 1/6W	
R 605	QR0167J-134	CARBON RESISTOR		

[illegible]

BLOCK NO. 03

REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
R 606	QRD161J-913	CARBON RESISTOR	91K 5% 1/6W	
R 607	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
R 609	QRD161J-114	CARBON RESISTOR	110K 5% 1/6W	
R 610	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
R 612	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
R 613	QRD161J-121	CARBON RESISTOR	120 5% 1/6W	
R 614	QRD161J-100	CARBON RESISTOR	10 5% 1/6W	
R 615	QRD161J-120	CARBON RESISTOR	12 5% 1/6W	
R 616	QRD161J-910Y	CARBON RESISTOR	91 5% 1/6W	
R 621	QRD161J-330	CARBON RESISTOR	33 5% 1/6W	
R 622	QRD161J-330	CARBON RESISTOR	33 5% 1/6W	
R 623	QRD161J-330	CARBON RESISTOR	33 5% 1/6W	
R 631	QRD161J-331	CARBON RESISTOR	330 5% 1/6W	
R 632	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
R 633	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
R 641	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
R 642	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
R 643	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
R 644	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R 645	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
R 646	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
R 647	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
R 651	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 652	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 653	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 654	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 655	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R 659	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
R 661	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
R 663	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
R 664	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
R 666	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
R 671	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
R 672	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
X 651	VCX5016-934V	CRYSTAL	16.9344MHZ	

15.Packing

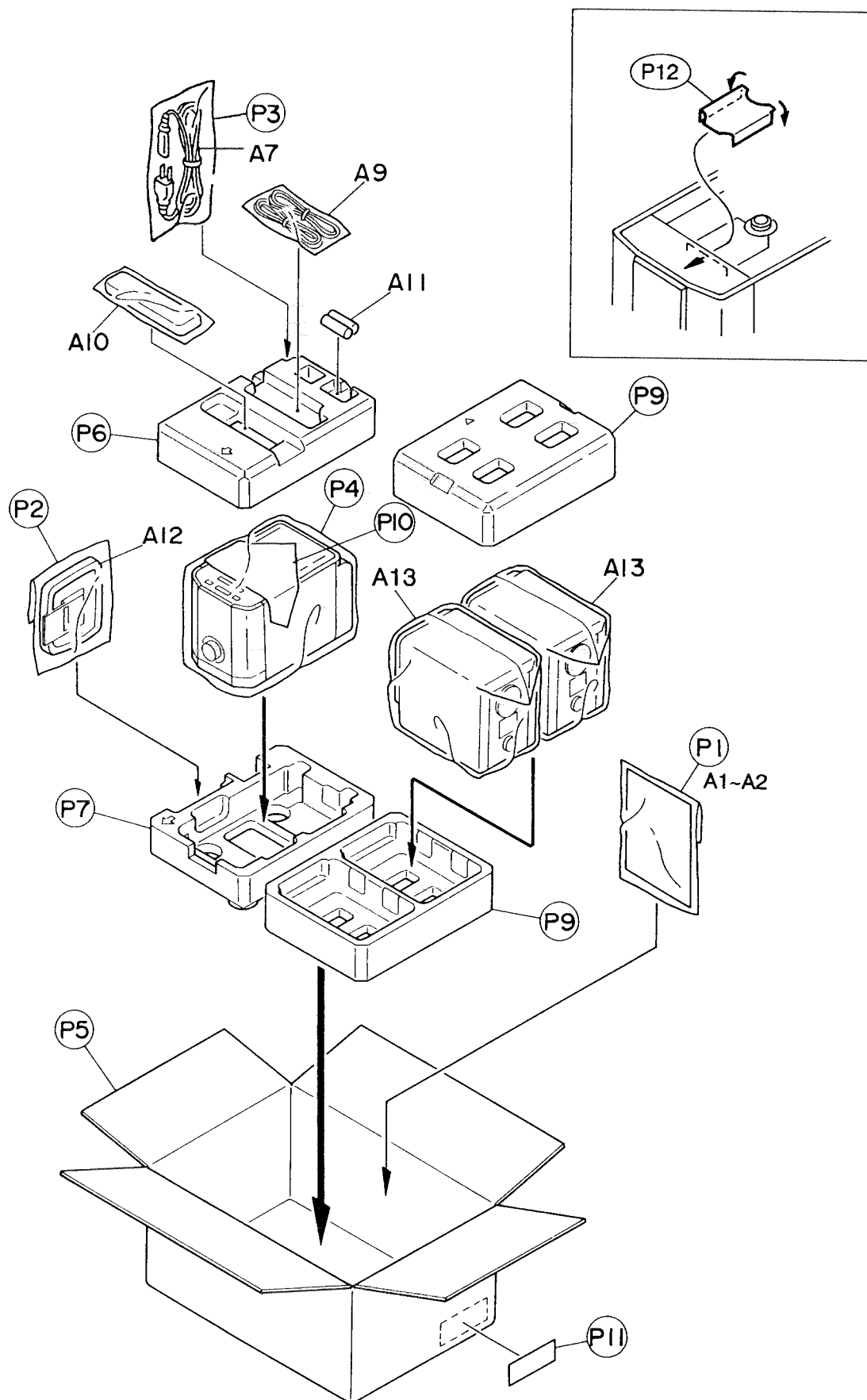


Fig. 15-1

Packing Parts List

BLOCK NO. M3MM

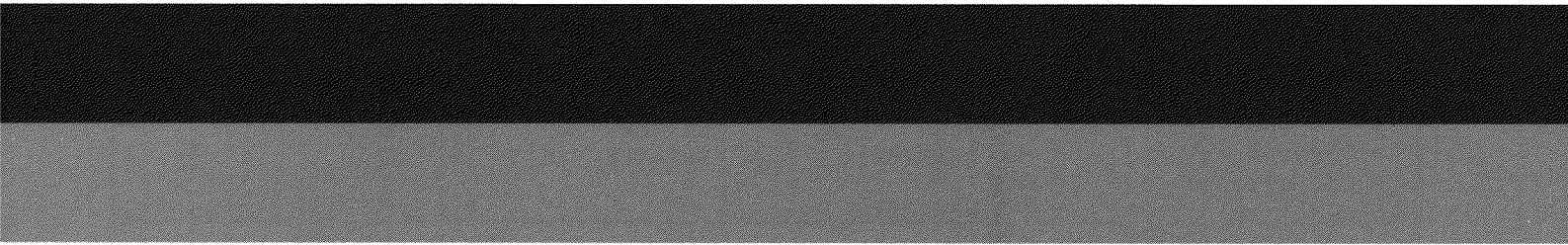
A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
P	1	VPE3005-007	POLY BAG	INSTRUCTIONS	1		
P	2	VPE3005-042	POLY BAG	AM LOOP ANT	1		
P	3	QPGA012-02505	POLY BAG	FOR POWER CORD	1		
P	4	VPE3020-018	POLY BAG	SET	1		
P	5	VPC9302-C004	CARTON		1		
P	6	VPH1695-001	CUSHION	TOP	1		
P	7	VPH1695-002	CUSHION	BOTTOM	1		
P	9	VPH2481-001	SPK CUSHION	SERVICE PARTS	2		
P	10	VPK3001-012	SHEET		1		
P	11	-----	CARTON LABEL		1		
P	12	VPK4236-010	SPACER		1		

Accessories

BLOCK NO. M4MM

A	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
A	1	VNN9291-121C	INSTRUCTIONS		1		
A	2	BT-59001-1C	JSC W CARD		1		
A	7	QMP7530-183	POWER CORD	POWER CORD	1		
A	8	EW201-011	B. IN ANT	FM ANT.	1		
A	9	VMP0133-001	SPK.CORD(2PCS)	SPEAKER CORD OF	1		
A	10	VGR0055-301	REMOCON UNIT	RM-RXU2000GD	1		
A	11	R6PRPA-2STSA	BATTERY	FOR REMOCON	2		
A	12	EQB4001-015	AM LOOP ANT	AM ANT.	1		
A	13	UX2000K-SPBOX	SPEAKER		2		
SVP	1	VYTB430	SARAN NET ASSY	SERVICE PARTS	2		
SVP	2	VGS0801-009	SPEAKER	SERVICE PARTS	2		

UX-2000GD UF



JVC

VICTOR COMPANY OF JAPAN LIMITED

AUDIO PRODUCTS DIVISION 10-1, 1-chome, Ohwatari-machi, Maebashi-city, Japan

(No.10034)